

Date Jan 28 08:29:50 2003

TOPLOGY: linear

US-08-781-891-209

Query Match 6.9%; Score 63.4; DB 3; Length 51259;

Best Local Similarity 59.9%; Pred. No. 1.6e-06; Indels 0; Gaps 0;

Matches 106; Conservative 0; Mismatches 71; Indels 0; Gaps 0;

364 TTCCCTCACTGCCAGGAACGTTATGAAGCATCAGACCTAACCTGGAGGGAGGGAA 423

1441 TGCCTACRR 1382

424 GAAGAAGGGAGGAAGAGGAAGAGGAAGATGATGAGGATGAGGATGCAGATA 483

1381 RRR 1322

484 TCTCTGGAGGAGCAAAGCCCTGTCAACAAGTCAAAGCTGGTCCCCAGAACGGCG 543

1321 RRR 1262

544 AGCGTGCTAAGAAAAAGCTGGAAAAGAGAAGAGGAATAAGGCCAGGTTAGA 603

51 RRR 1202

604 GACAAAGAGCCCTGTGAAAAGGCCAACAGCCACAGCCAGAGCCAAGGCCAGGATCAAG 663

2Y ::::::::::::::::::::: 1142

664 AAATGAGGAGCCACGCCCTGGGGCACGGTCAAGTGGCCTCCCTGGCTGTGCTG 723

QY ::::::::::::::::::::: 1082

664 AAATGAGGAGCCACGCCCTGGGGCACGGTCAAGTGGCCTCCCTGGCTGTGCTG 723

Db 1141 RRR 1046

724 CAGGCACAGGGTCCAGGCCCTCGTCCAGGCCCTCACCTG 759

QY ::::::::::::::::::::: 209

1081 RRRRRRRRRRRRATCGCAAGCTCCCTCGACCTG 1046

Db

test Local Similarity 3.5%; Pred. No. 1.5e-14; Mismatches 125; Indels 0; Gaps 0;

atches 14; Conservative 257; Mismatches 125; Indels 0; Gaps 0;

Query Match 6.4%; Score 59.4; DB 3; Length 16442;

Best Local Similarity 57.6%; Pred. No. 1.1e-05; Indels 1; Gaps 1;

Matches 125; Conservative 0; Mismatches 91; Indels 1; Gaps 1;

376 CAGGAACGTATGAAGCATCAGACCTAACCTGGAGGGAGGAGGAAGAGGGAG 435

QY ::::::::::::::::::::: 16310

Db 16369 CAGGAGCAGGAGGAGGAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 495

QY 436 GAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 495

INFORMATION FOR SEQ ID NO: 209:

SEQUENCE CHARACTERISTICS:

LENGTH: 51259 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

RESULT 2

US-08-781-891-209/C Sequence 209, Application US/08781891

; Patent No. 6090620

GENERAL INFORMATION:

; APPLICANT: Fu, Ying-Hui

; APPLICANT: Yu, Chang-En

; APPLICANT: Oshima, Junko

; APPLICANT: Mulligan, John T.

; APPLICANT: Schellenberg, Gerald D.

; APPLICANT: SEED and BERRY LLP

; ADDRESS: 6300 Columbia Center, 701 Fifth Avenue

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: Washington

; COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/781,891

FILING DATE: 27-DEC-1996

CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:

NAME: No. 6090620tenburg Ph.D., Carol

NAME: No. 6090620tenburg Ph.D., Carol

REGISTRATION NUMBER: 39,317

REFERENCE/DOCKET NUMBER: 240052.419

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 208:

SEQUENCE CHARACTERISTICS:

LENGTH: 16442 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-781-891-208

Query Match 6.4%; Score 59.4; DB 3; Length 16442;

Best Local Similarity 57.6%; Pred. No. 1.1e-05; Indels 1; Gaps 1;

Matches 125; Conservative 0; Mismatches 91; Indels 1; Gaps 1;

376 CAGGAACGTATGAAGCATCAGACCTAACCTGGAGGGAGGAGGAAGAGGGAG 435

QY ::::::::::::::::::::: 16310

Db 16369 CAGGAGCAGGAGGAGGAGCAGGAGGAGGAGGAGGAGGAGGAGGAG 495

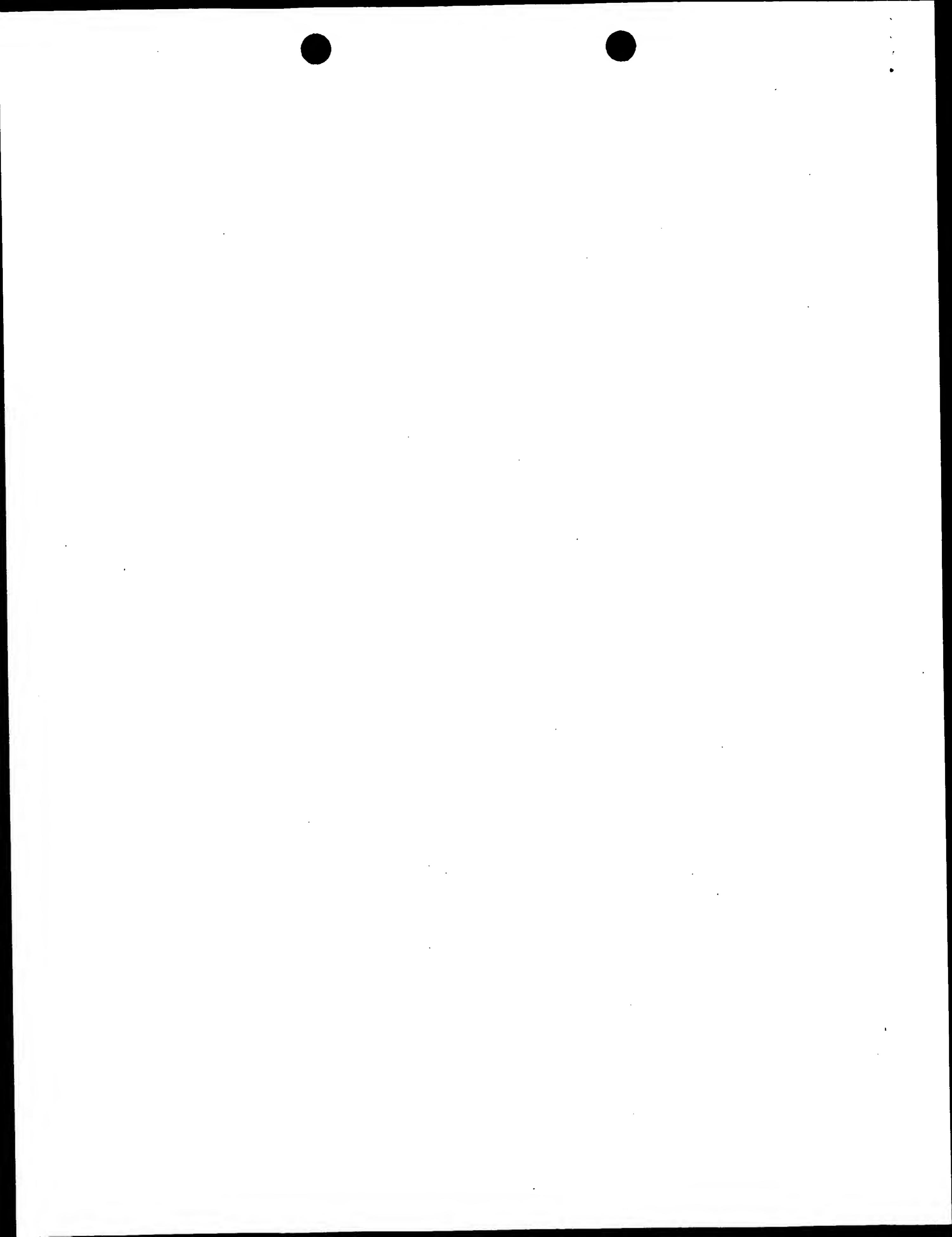
INFORMATION FOR SEQ ID NO: 209:

SEQUENCE CHARACTERISTICS:

LENGTH: 51259 base pairs

TYPE: nucleic acid

STRANDEDNESS: single



GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: January 24, 2003, 05:06:35 ; Search time 77 Seconds

(without alignments)

3680.121 Million cell updates/sec

Title: US-09-844-864-16

Perfect score: 924

Sequence: 1 cagcccgcttcgtggccgg tttggggcccaagcttatg 924

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : ISSUED_PATENTS_NA:*

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5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

8

Result No. Score Query Match Length DB ID Description

Result No.	Score	Query Match	Length	DB	ID	Description
C 1	93.2	10.1	7218	1	US-08-232-463-14	Sequence 14, Appl
C 2	63.4	6.9	51259	3	US-08-781-891-209	Sequence 209, App
C 3	59.4	6.4	16442	3	US-08-781-891-208	Sequence 208, App
C 4	59.2	6.4	3489	2	US-08-728-323A-1	Sequence 1, Appl
C 5	59.2	6.4	3489	4	US-09-298-568-1	Sequence 1, Appl
C 6	59.2	6.4	32207	2	US-08-770-379-20	Sequence 20, Appl
C 7	59.2	6.4	32207	4	US-08-757-669A-20	Sequence 20, Appl
C 8	59.2	6.4	32207	4	US-09-230-371A-20	Sequence 20, Appl
C 9	57.6	6.2	3211	2	US-08-574-959A-8	Sequence 20, Appl
C 10	57.6	6.2	3211	4	US-09-357-014-8	Sequence 20, Appl
C 11	57.6	6.2	3901	2	US-08-574-959A-6	Sequence 6, Appl
C 12	57.6	6.2	3901	4	US-09-357-014-6	Sequence 6, Appl
C 13	56.6	6.1	2518	4	US-09-433-699-3	Sequence 8, Appl
C 14	55.2	6.0	2340	3	US-09-022-983-4	Sequence 6, Appl
C 15	55.2	6.0	2477	4	US-09-490-692-3	Sequence 6, Appl
C 16	54.4	5.9	9636	1	US-08-323-170B-1	Sequence 3, Appl
C 17	54.4	5.9	9636	4	US-08-954-441-1	Sequence 4, Appl
C 18	54.5	5.8	1236	2	US-08-741-134-5	Sequence 3, Appl
C 19	52.2	5.6	289	4	US-09-007-005-17	Sequence 1, Appl
C 20	52.2	5.6	289	4	US-09-244-796-17	Sequence 1, Appl
C 21	52.2	5.6	15378	3	US-08-785-420-1	Sequence 5, Appl
C 22	51.8	5.6	966	2	US-08-766-738-2	Sequence 17, Appl
C 23	51.8	5.6	966	4	US-09-262-610-2	Sequence 17, Appl
C 24	51.6	5.6	489	1	US-07-879-685B-3	Sequence 1, Appl
C 25	50.6	5.5	5183	1	US-08-459-568-3	Sequence 2, Appl
C 26	50.6	5.5	5183	2	US-08-399-411-3	Sequence 3, Appl
C 27	50.6	5.5	5868	3	US-08-516-859A-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1

US-08-232-463-14/C

; Sequence 14, Application US/08232463

; Patent No. 5670367

GENERAL INFORMATION:

```
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIR
```

; NUMBER OF SEQUENCES: 52

; CORRESPONDENCE ADDRESS:

```
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
```

; STATE: VA

; COUNTRY: USA

; ZIP: 22313-0299

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version
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CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
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; CLASSIFICATION: 435

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US/07/935,313

; FILING DATE:

; APPLICATION NUMBER: EP 91 114 300.6

; ATTORNEY/AGENT INFORMATION:

; NAME: BENT, Stephen A.

; REFERENCE/DOCKET NUMBER: 29,768

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (703)836-9300

; TELEFAX: (703)683-4109

; TELEX: 899149

; INFORMATION FOR SEQ ID NO: 14:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 7218 base pairs

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; CLONE: PTZgpt-F1s

; US-08-232-463-14

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; Query Match 10.1%; Score 93.2%; DB
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Sequence 3, Applicability
Sequence 3, Applicability
Sequence 4, Applicability
Sequence 2, Applicability
Sequence 21, Applicability
Sequence 4, Applicability
Sequence 1, Applicability
Sequence 1, Applicability
Sequence 10, Applicability
Sequence 10, Applicability
Sequence 2, Applicability
Sequence 2, Applicability
Sequence 1, Applicability
Sequence 3, Applicability
Sequence 3, Applicability
Sequence 1, Applicability
Sequence 21, Applicability

NUMBER OF SEQUENCES: 20
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Cooper & Dunham LLP
 STREET: 1185 Avenue of the Americas
 CITY: New York
 STATE: New York
 COUNTRY: U.S.A.
 ZIP: 10036

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/770,379
 FILING DATE:
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: White, John P.
 REGISTRATION NUMBER: 28,678
 REFERENCE/DOCKET NUMBER: 52342
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 278-0400
 TELEFAX: (212) 391-0525
 INFORMATION FOR SEQ ID NO: 20:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 32207 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08-770-379-20

Query Match 6.4%; Score 59.2; DB 2; Length 32207;
 Best Local Similarity 52.8%; Pred. No. 1.6e-05;
 Matches 151; Conservative 0; Mismatches 133; Indels 2; Gaps 1;

QY 408 GGAGGAGGGAGGAAGAAGGGGAGGGAGGAGAGAGATGATGAGGA 467
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 Db 20896 GGATGACCGAGGAGGATGACGAGGAGGATGACGAGGAGGATGACGAGGA 20837

QY 468 TGAGGATGCAGATATCTCTGGAGGAGCAAAACAGTCAAAGGCTGGT 527
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 Db 20836 GGAGGACGAGGAGGAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGATGACGAGGA 20777

QY 528 GCCCCAGAACGGCGGAGCTAAGAAAAAAAGCTGGAAAAGAGAAGAGGAAT 587
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 Db 20776 TGATGAGGACAATGAGGAGGAGGATGACGAGGAGGAGGAGGAGGAGGAGGA 20717

QY 588 AAGAGCCAGCGTTAGAGACAAGAGCCCTGTGA - AAAAGCCAAGGCCACAGCCAGAGCC 645
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 Db 20716 GGACGGGGCGATGGAACAAACAGCTGAGCATCCAAAGTTCACAAACAGCAGCAGGAGCC 20657

QY 646 AAGAACGCCAGGATTCAAAGAACAGCTGAGCATCCAAAGTTCACAAACAGCAGCAGGAGCC 691
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 Db 20656 ACAACAGCAGGCCACAGCAGCAGGCCACAGCAGCAGGCC 20611

RESULT 7
 US-08-757-669A-20/c
 Sequence 20, Application US/08757669A
 ; Patent No. 6183751
 ; GENERAL INFORMATION:
 ; APPLICANT: Chang, Yuan
 ; APPLICANT: Bohenzky, Roy A.
 ; APPLICANT: Russo, James J.
 ; APPLICANT: Edelman, Isidore S.
 ; APPLICANT: Moore, Patrick S.
 ; TITLE OF INVENTION: UNIQUE ASSOCIATED KAPOSI'S SARCOMA VIRUS SEQUENCES AND
 ; NUMBER OF SEQUENCES: 20
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Cooper & Dunham LLP

STREET: 1185 Avenue of the Americas
 CITY: New York
 STATE: New York
 COUNTRY: U.S.A.
 ZIP: 10036

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/757,669A
 FILING DATE:
 CLASSIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: White, John P.
 REGISTRATION NUMBER: 28,678
 REFERENCE/DOCKET NUMBER: 45185-F
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 278-0400
 INFORMATION FOR SEQ ID NO: 20:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 32207 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08-757-669A-20

Query Match 6.4%; Score 59.2; DB 4; Length 32207;
 Best Local Similarity 52.8%; Pred. No. 1.6e-05;
 Matches 151; Conservative 0; Mismatches 133; Indels 2; Gaps 1;

QY 408 GGAGGAGGGAGGAAGAAGGGGAGGGAGGAGAGAGATGATGAGGA 467
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 Db 20896 GGATGACCGAGGAGGATGACGAGGAGGATGACGAGGAGGATGACGAGGA 20837

QY 468 TGAGGATGCAGATATCTCTGGAGGAGCAAAACAGTCAAAGGCTGGT 527
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QY 528 GCCCCAGAACGGCGGAGCTAAGAAAAAAAGCTGGAAAAGAGAAGAGGAAT 587
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QY 588 AAGAGCCAGCGTTAGAGACAAGAGCCCTGTGA - AAAAGCCAAGGCCACAGCCAGAGCC 645
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 Db 20716 GGACGGGGCGATGGAACAAACAGCTGAGCATCCAAAGTTCACAAACAGCAGCAGGAGCC 20657

QY 646 AAGAACGCCAGGATTCAAAGAACAGCTGAGCATCCAAAGTTCACAAACAGCAGCAGGAGCC 691
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RESULT 8
 US-09-230-371A-20/c
 Sequence 20, Application US/09230371A
 ; Patent No. 6348586
 ; GENERAL INFORMATION:
 ; APPLICANT: Chang, Yuan
 ; APPLICANT: Bohenzky, Roy A.
 ; APPLICANT: Russo, James J.
 ; APPLICANT: Edelman, Isidore S.
 ; APPLICANT: Moore, Patrick S.
 ; TITLE OF INVENTION: UNIQUE ASSOCIATED KAPOSI'S SARCOMA VIRUS SEQUENCES AND
 ; TITLE OF INVENTION: USES THEREOF
 ; FILE REFERENCE: 45185-G-PCT-US
 ; CURRENT APPLICATION NUMBER: US/09/230,371A
 ; CURRENT FILING DATE: 1999-11-17
 ; PRIORITY APPLICATION NUMBER: PCT/US97/13346
 ; PRIORITY FILING DATE: 1997-07-22
 ; NUMBER OF SEQ ID NOS: 30

; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 20
; LENGTH: 32207
; TYPE: DNA
; ORGANISM: Kaposi's sarcoma-associated herpesvirus
; US-09-230-371A-20

Query Match 6.4%; Score 59.2; DB 4; Length 32207;
Best Local Similarity 52.8%; Pred. No. 1.6e-05;
Matches 151; Conservative 0; Mismatches 133; Indels 2; Gaps 1;

QY 408 GGAGGAGGGAGGAAGAAAGGGAGGGAGGAAGAGAGATGATGAGGA 67
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Db 20896 GGATGACGAGGAGGATGACGAGGAGGATGACGAGGAGGATGACGAGGA 20837
QY 468 TGAGGATGCAGATATCTCTGGAGGAGCAAGCCCTGTCAAACAAGTCAAAAGGCTGGT 527
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Db 20836 GGAGGACGAGGAGGAGGACGAGGAGGAGGAGGATGACGAGGAGGATGACGAGA 20777
QY 528 GCCCCCAGAACGGCAGGGCAGGGAGGATGACGAGGAGGAGGAGAAT 587
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Db 20776 TGTGAGGAGACAATGAGGAGGAGGATGACGAGGAGGAGAAGAAGGAGGAGGA 20717
QY 588 AAGAGGCCAGGGTTAGAGACAAGAGAGCCCTGTGA - AAAAGCCAAAGCCACAGCCAGAGCC 645
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Db 20716 GGACGGGGGGCATGGAAACAAACGTTGAGCATCCAAGTTCACAAACAGCAGCAGGAGCC 20657
QY 646 AAGAGCCAGGATTCAAGAAATGGGAGCCACGCCCTGGGGGCAC 691
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Db 20656 ACAACAGCAGGCCACAGCAGCAGGCCACAGCAGCAGGCC 20611

RESULT 9
US-08-574-959A-8

; Sequence 8, Application US/08574959A
; Patent No. 596224

GENERAL INFORMATION:
APPLICANT: Jaekyoon Shin, Inslil Joung, Ratna K. Vadlamudi
TITLE OF INVENTION: p62 POLYPEPTIDES, RELATED POLYPEPTIDES
NUMBER OF SEQUENCES: 22

CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

CURRENT APPLICATION DATA:
SOFTWARE: PatentIn Release #1.0, Version #1.25
APPLICATION NUMBER: US/08/574,959A
FILING DATE: 19-DEC-95
ATTORNEY/AGENT INFORMATION:
NAME: Mandragoras, Amy E.
REGISTRATION NUMBER: 36,207

REFERENCE/DOCKET NUMBER: DFN-008

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 3211 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 439..3157
SEQUENCE DESCRIPTION: SEQ ID NO: 8
US-09-357-014-8

Query Match 6.2%; Score 57.6; DB 2; Length 3211;
US-08-574-959A-8

Query Match 6.2%; Score 57.6; DB 2; Length 3211;
Best Local Similarity 57.1%; Pred. No. 1.6e-05;
Matches 105; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

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||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2398 GAAGAGGAGGAAGAGGAAGAGGAAGAGAAGAAGAAGAAGA 2457
QY 469 GAGGATGCAGATATCTCTGGAGGAGCAAGCCCTGTCAAACAAGTCAAAAGGCTGGT 528
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2458 GAAGAGGAGGAAGAGGAAGAGGAGGAGACTTTGAGGAAGAGGAGGATGACGAG 2517
QY 529 CCCCAGAAGCGGGCGAGCGTGCTAAGAAAAAAGCTGGAAAAGAAGAGGAANTA 588
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2518 GAATATTGAGGAAGAGGAGGAGGAGGAGGAGGAGATTGAGGAAGGA 2577
QY 589 AGAG 592
Db 2578 GAAG 2581

RESULT 10
US-09-357-014-8

; Sequence 8, Application US/09357014
; Patent No. 6291645

GENERAL INFORMATION:
APPLICANT: Jaekyoon Shin, Inslil Joung, Ratna K. Vadlamudi
TITLE OF INVENTION: p62 POLYPEPTIDES, RELATED POLYPEPTIDES
NUMBER OF SEQUENCES: 22
AND USES THEREFOR

CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

CURRENT APPLICATION DATA:
SOFTWARE: PatentIn Release #1.0, Version #1.25
APPLICATION NUMBER: 08/574,959
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Mandragoras, Amy E.
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: DFN-008
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 3211 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 439..3157
SEQUENCE DESCRIPTION: SEQ ID NO: 8
US-09-357-014-8

Query Match 6.2%; Score 57.6; DB 4; Length 3211;

Best Local Similarity 57.1%; Pred. No. 1.6e-05; Mismatches 79; Indels 0; Gaps 0;

QY 409 GAGGAGGGAGGAAGAAGGGGAGGGAGGAAGAGATGAGGAT 468
Db 2398 GAAGAGGGAGGAAGAAGAGGAAGAGGAAGAGGAAGAA 2457

QY 469 GAGGATGCAGATATCTCTGGAGGACCAAAGCCCTGTCAACAAAGTCAAAGGCTGGT 528
Db 2458 GAAGAAGAGGAAGAGGAAGAGGAGACTTTGAGGAAGAGGATGAAGAG 2517

QY 529 CCCAGAGCAGGGAGCGTGGCTAACAAAAAGCTGGAAAAGAAGAGGAATA 588
Db 2518 GAATATTGAGGAAGAGGAGGAGGAAGAGGTTTGAGGAAGAATTGAGGAAGAA 2577

QY 589 AGAG 592
Db 2578 GAAG 2581

RESULT 11
US-08-574-959A-6
Sequence 6, Application US/08574959A
; Patent No. 5962224

GENERAL INFORMATION:
APPLICANT: Jaekyoon Shin, Insil Joung, Ratna K. Vadlamudi
APPLICANT: and Jack L. Strominger
TITLE OF INVENTION: p62 POLYPEPTIDES, RELATED POLYPEPTIDES
TITLE OF INVENTION: AND USES THEREFOR
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/574, 959A
FILING DATE: 19-DEC-95

ATTORNEY/AGENT INFORMATION:
NAME: Mandragoras, Amy E.
REGISTRATION NUMBER: 36, 207
REFERENCE/DOCKET NUMBER: DFN-008

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 3901 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 439 .. 3847
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-357-014-6

Query Match 6.2%; Score 57.6; DB 2; Length 3901;
Best Local Similarity 57.1%; Pred. No. 1.7e-05; Mismatches 79; Indels 0; Gaps 0;

QY 409 GAGGAGGGAGGAAGAAGGGGAGGGAGGAAGAGGAAGATGAGGAT 468
Db 3088 GAAGAGGGAGGAAGAAGAGGAAGAGGAAGAGGAAGAA 3147

QY 469 GAGGATGCAGATATCTCTGGAGGACCAAAGCCCTGTCAACAAAGTCAAAGGCTGGT 528
Db 3148 GAAGAAGAGGAAGAGGAAGAGGAGACTTTGAGGAAGAGGATGAAGAG 3207

QY 529 CCCAGAGCAGGGAGCGTGGCTAACAAAAAGCTGGAAAAGAAGAGGAATA 588
Db 3268 GAAG 3271

RESULT 12
US-09-357-014-6
Sequence 6, Application US/09357014
; Patent No. 6291645

GENERAL INFORMATION:
APPLICANT: Jaekyoon Shin, Insil Joung, Ratna K. Vadlamudi
and Jack L. Strominger
TITLE OF INVENTION: p62 POLYPEPTIDES, RELATED POLYPEPTIDES
TITLE OF INVENTION: AND USES THEREFOR
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/357, 014
FILING DATE: 19-Jul-1999

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/574, 959
FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:
NAME: Mandragoras, Amy E.
REGISTRATION NUMBER: 36, 207
REFERENCE/DOCKET NUMBER: DFN-008

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 3901 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 439 .. 3847
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-357-014-6

Query Match 6.2%; Score 57.6; DB 4; Length 3901;
Best Local Similarity 57.1%; Pred. No. 1.7e-05; Mismatches 79; Indels 0; Gaps 0;

QY 409 GAGGAGGGAGGAAGAAGGGGAGGGAGGAAGAGGAAGATGAGGAT 468
Db 3088 GAAGAGGGAGGAAGAAGAGGAAGAGGAAGAGGAAGAA 3147

QY 469 GAGGATGCAGATATCTCTGGAGGACCAAAGCCCTGTCAACAAAGTCAAAGGCTGGT 528
Db 3148 GAAGAAGAGGAAGAGGAAGAGGAGACTTTGAGGAAGAGGATGAAGAG 3207

QY 529 CCCAGAGCAGGGAGCGTGGCTAACAAAAAGCTGGAAAAGAAGAGGAATA 588
Db 3268 GAAG 3271

Db 3208 GATATTTGAAGAGGAAGAAGAGGAGTTGAGGAAGAA 3267
 Qy |||||
 Db 3268 GAAG 3271

RESULT 13
 US-09-433-699-3
 ; Sequence 3, Application US/09433699B
 ; Patent No. 6165786
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF NUCLEOLIN EXPRESSION
 ; FILE REFERENCE: RTS-0109
 ; CURRENT APPLICATION NUMBER: US/09/433,699B
 ; CURRENT FILING DATE: 1999-11-03
 ; NUMBER OF SEQ ID NOS: 89
 ; SEQ ID NO 3
 ; LENGTH: 2518
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (112)..(2235)
 ; US-09-433-699-3

Query Match 6.18; Score 56.6; DB 4; Length 2518;
 Best Local Similarity 53.4%; Pred. No. 2.5e-05;
 Matches 119; Conservative 0; Mismatches 104; Indels 0; Gaps 0;

Qy 357 ACCCGTGTCTCAGTGGCCAGAACGTTATGAAGCATCAGACCTAACCTGGAGGGAGGA 416
 Db 795 AGCCAAGAACGTTGGCTGAGGATGAAGATGAAGAGGATGAGGACGGATGACGA 854

Qy 417 GGAGGAAGAACAGGGAGGAGGAAGAGGAAGAGGAAGAGGAAGAGGAAGAGGAAGAGGA 476
 Db 855 CGACCGACGAAGATGATGAAGATGATGATGAAGATGATGAGGAGGAGGAAGAGGA 914

Qy 477 AGATATATCTGGAGGAGCAAGCCCTGTCAAACAAAGTCAAAGGCTGGTGCAGAGAA 536
 Db 915 CGAGGAAGAGCCTGTCAAAGAACGACACCTGGAAAGGAAGAGGAATGGCCAACAGAA 974

Qy 537 GCAGGGAGCGGTGGCTAAGAAAAGCTGGAAAAAGAAAGAA 579
 Db 975 AGCAGCTCTGAAGGCCAAGAACAGAAAGTGGAGGCACAGAA 1017

RESULT 14
 US-09-022-983-4
 ; Sequence 4, Application US/09022983
 ; Patent No. 6159731
 ; GENERAL INFORMATION:
 ; APPLICANT: Yang, Xiaolu
 ; APPLICANT: khosravi-Far, Roya
 ; APPLICANT: Chang, Howard Y.
 ; APPLICANT: Baltimore, David
 ; TITLE OF INVENTION: DAXX, A NOVEL FAS-BINDING PROTEIN THAT ACTIVATES JNK AND APOPTOSIS
 ; NUMBER OF SEQUENCES: 5
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 ; STREET: 600 Atlantic Avenue
 ; CITY: Boston
 ; STATE: MA
 ; COUNTRY: USA
 ; ZIP: 02210
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: DOS

Query Match 6.08; Score 55.2; DB 3; Length 2340;
 Best Local Similarity 55.18%; Pred. No. 5.7e-05;
 Matches 108; Conservative 0; Mismatches 88; Indels 0; Gaps 0;

Qy 423 AGAAGAAGGGAGGAGGAAGAGGAAGAGATGATGAGGATGAGGATGAGATAT 482
 Db 1296 AGCTGAGACAGATGACGAAGACGATGAGGAGGTGAGGAAGAGGAGGAGGA 1355

Qy 483 ATCTCTGGAGGAGCAAAGCCCTGTCAAACAAAGTCAAAGGCTGGTGCAGAGGC 542
 Db 1356 AGAAGAAGAGGAGGAGGCCACAGATCTGAAGAGGAGGATCTGGAACAGATGCAGGA 1415

Qy 543 GAGCGTGGCTAAGAAAAGCTGGAAAAAGAAAGAAGAGGAATAAGAGGCCAGCGTAG 602
 Db 1416 GGGTCAGGAGGATGATGAAGAGGAGGACGAAGAGGAAGCAGCAGGTAAGATGG 1475

Qy 603 AGACAAGAGCCCCGTG 618
 Db 1476 AGACAAGAGCCCCATG 1491

RESULT 15
 US-09-490-692-3
 ; Sequence 3, Application US/09490692
 ; Patent No. 6180353
 ; GENERAL INFORMATION:
 ; APPLICANT: Nicholas M. Dean
 ; APPLICANT: Lex M. Cowser
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF DAXX EXPRESSION
 ; FILE REFERENCE: RTS-0120
 ; CURRENT APPLICATION NUMBER: US/09/490,692
 ; CURRENT FILING DATE: 2000-01-24
 ; NUMBER OF SEQ ID NOS: 176
 ; SEQ ID NO 3
 ; LENGTH: 2477
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens

FEATURE:
 NAME/KEY: CDS
 LOCATION: (116)..(2338)

US-09-490-692-3

Query	Match	Score	DB	Length
Best Local Similarity		55.1%	Pred. No.	5.8e-05
Matches		108;	Conservative	0;
QY	423 AGAAGAAGGGAGGGAGGAAGAGGAAGATGATGAGGATGAGGATGCAGATAT	6.0%	55.2;	DB 4; Length 2477;
Db	1411 AGCTGAGACAGATGACGAAGACGATGAGGAGAGTGTGAGGAAGAGGAGGAGGA	55.1%	Pred. No. 5.8e-05;	Mismatches 88; Indels 0; Gaps 0
QY	483 ATCTCTGGAGGAGCAAGCCCTGTCAAACAAAGTCAAAGGCTGGTCCCCAGAACGCC	54.2		
Db	1471 AGAAGAAGAGGGAGGCCACAGATTCTGAAGAGGAGGAGGATCTGGAACAGATGCAGGA	54.2		Length 1530
QY	543 GAGCGGTGCTAAAGAAAAAGCTGGAAAAGAAGAAGAGGAATAAGAGGCCAGCCTTAG	6.0%	55.2;	DB 4; Length 2477;
Db	1531 GGGTCAGGAGGATGATGAAGAGGAGGACGAAGAGGAAGACGCAGCAGGTAAAGATGG	6.0%	Pred. No. 5.8e-05;	Mismatches 88; Indels 0; Gaps 0
QY	603 AGACAAGAGCCCTGTG	618		
Db	1591 AGACAAGAGCCCCATG	1606		

Search completed: January 24, 2003, 18:46:33
Job time : 206 secs

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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

OM nucleic - nucleic search, using sw model

Run on: January 23, 2003, 14:06:24 ; Search time 45576 seconds
(without alignments)
590.025 Million cell updates/sec

Title: US-09-844-864-16
Perfect score: 924
Sequence: 1 caggccatcttcgtccccgg.....tttgcggccgcaagttatg 924

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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 2: gb_htg:*
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 6: gb_pat:*
 7: gb_ph:*
 8: gb_pl:*
 9: gb_pr:*
 10: gb_ro:*
 11: gb_sts:*
 12: gb_sy:*
 13: gb_un:*
 14: gb_v1:*
 15: em_ba:*
 16: em_fun:*
 17: em_hum:*
 18: em_in:*
 19: em_mu:*
 20: em_om:*
 21: em_or:*
 22: em_ov:*
 23: em_pat:*
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 29: em_v1:*
 30: em_htg_hum:*
 31: em_htg_inv:*
 32: em_htg_other:*
 33: em_htg_mus:*
 34: em_htg_p1n:*
 35: em_htg_rrod:*
 36: em_htg_mam:*
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 38: em_sy:*
 39: em_htgo_hum:*
 40: em_htgo_mus:*
 41: em_htgo_other:*

Pred. No. is the number of results predicted by chance to have a

Result NO.	Score	Query Match Length	DB ID	Description
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3	337	36.5	423 6 AX321879	AX321879 Sequence
4	262.4	28.4	156347 2 AC091171	AC091171 Homo sapi
5	262.4	28.4	166878 2 AC023288	AC023288 Homo sapi
6	262.4	28.4	181714 2 AC090442	AC090442 Homo sapi
7	262.4	28.4	184050 2 AC087819	AC087819 Homo sapi
8	171.6	18.6	86574 9 HS833B7	AC090471 Homo sapi
9	122	13.2	135206 2 AC108486	AL008637 Human DNA
10	120.4	13.0	149940 9 AC093557	AC108486 Homo sapi
11	99.6	10.8	646 5 XLNUPLR	AC093557 Homo sapi
12	96.2	10.4	800 5 XLNUPLR2	Y0204 Xenopus lae
13	93.2	10.1	7218 6 166494	XO4766 Xenopus lae
14	90.6	9.8	198421 2 AC125180	166494 Sequence 14
15	83.2	9.0	190604 2 AC122303	AC125180 Mus muscu
16	81.6	8.8	200052 2 AL772398	AC122303 Mus muscu
17	81.4	8.8	251076 2 AC097410	AL772398 Mus muscu
18	81.2	8.8	2081 9 AK056804	AC097410 Rattus no
19	79.8	8.6	43553 9 AL357372	AK056804 Homo sapi
20	79	8.5	222259 2 AC113078	AL357372 Human DNA
21	78.4	8.5	241666 2 AC118543	AC113078 Mus muscu
22	77.4	8.4	182740 2 AC115811	AC118543 Mus muscu
23	76.8	8.3	165077 10 AC084382	AC115811 Mus muscu
24	76.4	8.3	170032 2 AC116673	AC084382 Mus muscu
25	76.2	8.2	70391 2 AC110410	AC116673 Mus muscu
26	75.8	8.2	144328 9 AC009695	AC110410 Rattus no
27	75.8	8.2	163495 9 AC022716	AC009695 Homo sapi
28	75.8	8.2	170631 9 AC020751	AC022716 Homo sapi
29	75.8	8.2	170807 9 AC023812	AC020751 Homo sapi
30	75.8	8.2	179803 9 AC068314	AC023812 Homo sapi
31	75.4	8.2	168856 2 AF466883	AC068314 Homo sapi
32	75.4	8.2	16153 2 AC128501	AF466883 Mus muscu
33	75.2	8.1	110000 2 AC098456_2	AC128501 Rattus no
34	75.2	8.1	303943 2 AC127311	Continuation (3 of
35	74.8	8.1	177716 9 AC026188	AC127311 Mus muscu
36	74.6	8.1	152763 2 AC119715	AC026188 Homo sapi
37	74.6	8.1	175456 2 AC115183	AC119715 Rattus no
38	74.4	8.1	147670 10 AC084020	AC115183 Rattus no
39	74.4	8.1	205606 10 AL596204	AC084020 Mus muscu
40	74	8.0	184370 2 AL58945	AL596204 Mouse DNA
41	73.8	8.0	120044 2 AC129042	AL58945 Mus muscu
42	73.8	8.0	208844 2 AC125070	AC129042 Rattus no
43	73.8	8.0	215938 2 AC102646	AC125070 Mus muscu
44	73.6	8.0	93682 10 AL591805	AC102646 Mus muscu
45	8.0	8.0	154733 2 AC131221	AL591805 Mouse DNA

ALIGNMENTS

RESULT 1	AK094267	1874 bp mRNA linear PRI 15-JUL-2002
LOCUS	AK094267	Homo sapiens CDNA FLJ36948 fis, clone BRACE2005719, weakly similar
DEFINITION		to NUCLEOPLASMIN.
ACCESSION	AK094267	
VERSION	AK094267.1	GI:21753294
KEYWORDS		oligo capping; fis (full insert sequence).
SOURCE		Homo sapiens cerebellum cDNA to mRNA, clone_11b:BRACE2
ORGANISM		clone:BRACE2005719.
REFERENCE		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS		Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

Tanigami,A., Fujiwara,T., Shibahara,T., Goto,Y., Hirao,M.,

1

QY	541	GCGAGCGGGCTAAGAAAAAGCTGGAAAAGAAGAGGAATAAGAGCCAGCGT	600
Shimizu, F., Wakebe, H., Ono, T., Hishigaki, H., Watanabe, T., Ozaki, K., Sugiyma, T., Irie, R., Otsuki, T., Sato, H., Wakamatsu, A., Ishii, S., Yamamoto, J., Isono, Y., Kawai-Hio, Y., Saito, K., Nishikawa, T., Kimura, K., Yamashita, H., Matsuo, K., Nakamura, Y., Sekine, M., Kikuchi, H., Kanda, K., Wagatsuma, M., Murakawa, K., Kanehori, K., Takahashi-Fujii, A., Oshima, A., Sugiyama, A., Kawakami, B., Suzuki, Y., Sugano, S., Nagahari, K., Masuho, Y., Nagai, K. and Isogai, T.			
NEO human cDNA sequencing project			
Unpublished			
2 (bases 1 to 1874)			
ISogai, T. and Yamamoto, J.			
AUTHORS			
JOURNAL			
REFERENCE			
2			
ISogai, T. and Yamamoto, J.			
Direct Submission			
Submitted (04-JUL-2002) Takao Isogai, FLJ Project (HRI Team); 2-6-7			
Kazusa-Kamatari, Kisarazu, Chiba 292-0812, Japan			
(E-mail:genomics@hri.co.jp, Tel: 81-438-52-3985)			
COMMENT			
NEDO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology (RAB); cDNA library construction: Helix Research Institute (HRI) (supported by Japan Key Technology Center etc.); 5' & 3' end one pass sequencing: RAB, HRI, and Biotechnology Center, National Institute of Technology and Evaluation; clone selection for full insert sequencing: HRI and RAB; annotation: HRI and RAB.			
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SOURCE			
1.	1874	/organism="Homo sapiens"	
		/db_xref="taxon:9606"	
		/clone="BRACE2005719"	
		/tissue_type="cerebellum"	
		/clone_1ib="BRACE2"	
		/note="cloning vector: pME18SFL3"	
BASE COUNT	394 a 570 c 604 g 306 t		
ORIGIN			
Query Match	95.6%	Score 883; DB 9; Length 1874;	
Best Local Similarity	100.0%	Pred. No. 3.2e-208;	
Matches	883;	Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1	CAGCCCGCTTCCTGCCGGACCATGAATCTCAGTAGGCCAGTAGCACGGAGAAAG 60	
Db	992	CAGCCCGCTTCCTGCCGGACCATGAATCTCAGTAGGCCAGTAGCACGGAGAAAG 1051	
QY	61	GCAGTTGACGCCGCTCTGGGGCTCGAGCTCAGTCAGGAGGGACTTGACCTTC 120	
Db	1052	GCAGTGACGCCGCTCTGGGGCTCGAGCTCAGGAGGGCAGCTGGACCTTC 1111	
QY	121	AGACCCAGCTGGAGGGAGCAGAGCTGCAAGGGTGTGCTCATACGATTGCTTGGGG 180	
Db	1112	AGACCCAGCTGGAGGGAGCAGCTGCAAGGGTGTGCTTCATACGATTGCTTGGGG 1171	
QY	181	GAGAAAGCCAAGAGGAGATGCATCGCTGGAGATCTGCCCGAACCAACCAAGGGAC 240	
Db	1172	GAGAAAGCCAAGAGGAGATGCATCGCTGGAGATCTGCCCGAACCAACCAAGGGAC 1231	
QY	241	AAGAGATGCCAGGGTCACCATGCTCACTCCAGGCCCTCAGTCTCCCCATGGCTCC 300	
Db	1232	AAGAGATGCCAGGGTCACCATGCTCACTCCAGGCCCTCAGTCTCCCCATGGCTCC 1291	
QY	301	ATGGTAGGAGTCAGCTTCCTCCCCAGTTACTTCCAGCTCCGGCTGGCTCAGGCC 360	
Db	1292	ATGGTAGGAGTCAGCTTCCTCCCCAGTTACTTCCAGCTCCGGCTGGCTCAGGCC 1351	
QY	361	GTGTTCCTCAGTGGCCAGGAACGTTAGAACGATCAGACCTAACCTGGAGGGAG 420	
Db	1352	GTGTTCCTCAGTGGCCAGGAACGTTAGAACGATCAGACCTAACCTGGAGGGAG 1411	
QY	421	GAAGAAGAAGGGGAGGAGGAAGAGGAAGAGGAAGATGATGAGGATGAGGATGAG 480	
Db	1412	GAAGAAGAAGGGGAGGAGGAAGAGGAAGAGGAAGATGATGAGGATGAGGATGAG 1471	
QY	481	ATATCTCTGGAGGAGCAAGCCCTGTCAAACAAAGTCAAAGGCTGGCCAGAAC 540	
Db	1472	ATATCTCTGGAGGAGCAAGCCCTGTCAAACAAAGGCTGGCCAGAAC 1531	
QY	541	GCGAGCGGGCTAAGAAAAAGCTGGAAAAGAAGAGGAATAAGAGCCAGCGT	600
Db	1532	GCGAGCGGGCTAAGAAAAAGCTGGAAAAGAAGAGGAATAAGAGCCAGCGT	1591
QY	601	AGAGACAAGGCCCTGTGAAAAGGCCAAAGCCACAGCCAGGCCAAGAAGCCAGGATC	660
Db	1592	AGAGACAAGGCCCTGTGAAAAGGCCAAAGCCACACCCAGAGCCAAAGGCCAGGATC	1651
QY	661	AAGAAATGAGGCCACGCCCTGGGGCACGGTGCAAAGTGGGCTTCCCTGGCTGTG	720
Db	1652	AAGAAATGAGGCCACGCCCTGGGGCACGGTGCAAAGTGGGCTTCCCTGGCTGTG	1711
QY	721	CTGCAGGCCACAGGGTGCCCTGTCCAGGCCCTCACCCCTCACCTGTGCTGAATGCAACAGGGTG	780
Db	1712	CTGCAGGCCACAGGGTGCCCTGTCCAGGCCCTCACCCCTCACCTGTGCTGAATGCAACAGGGTG	1771
QY	781	TTGGGGGCAACATGAGAGGCCCTCACCCCAACTCTCCACTTCAGGAGGCCCTAGT	840
Db	1772	TTGGGGGCAACATGAGAGGCCCTCACCCCAACTCTCCACTTCAGGAGGCCCTAGT	1831
QY	841	GAAGGCCAACCTCGGGTACAATAAGTGCCTGGTCAGGAGGCCCTAGT	883
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RESULT	2		
AX321879			
LOCUS	AX321879		
DEFINITION	Sequence 410 from Patent WO0172295.		
ACCESSION	AX321879		
VERSION	AX321879.1		
KEYWORDS	GI:17906455		
SOURCE			
ORGANISM			
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
REFERENCE			
AUTHORS			
1	Reed, S.G., Lodes, M.J., Mohamath, R., Secrist, H., Benson, D.R., Indrias, C.Y., Henderson, R.A., Fling, S.P., Algate, P.A., Elliot, M., Mannion, J. and Kalos, M.D.		
TITLE			
Compositions and methods for the therapy and diagnosis of lung cancer			
QY	Patent: WO 0172295-A 410 04-OCT-2001;		
Db	CORIXA CORPORATION (US)		
QY	Location/Qualifiers		
Db	1.	.4.23 /organism="Homo sapiens"	
QY	181	GAGAAAGCCAAGAGGAGATGCATCGCTGGAGATCTGCCCGAACCAACCAAGGGAC 240	
Db	1172	GAGAAAGCCAAGAGGAGATGCATCGCTGGAGATCTGCCCGAACCAACCAAGGGAC 1231	
QY	241	AAGAGATGCCAGGGTCACCATGCTCACTCCAGGCCCTCAGTCTCCCCATGGCTCC 300	
Db	1232	AAGAGATGCCAGGGTCACCATGCTCACTCCAGGCCCTCAGTCTCCCCATGGCTCC 1291	
QY	301	ATGGTAGGAGTCAGCTTCCTCCCCAGTTACTTCCAGCTCCGGCTGGCTCAGGCC 360	
Db	1292	ATGGTAGGAGTCAGCTTCCTCCCCAGTTACTTCCAGCTCCGGCTGGCTCAGGCC 1351	
QY	361	GTGTTCCTCAGTGGCCAGGAACGTTAGAACGATCAGACCTAACCTGGAGGGAG 420	
Db	1352	GTGTTCCTCAGTGGCCAGGAACGTTAGAACGATCAGACCTAACCTGGAGGGAG 1411	
QY	421	GAAGAAGAAGGGGAGGAGGAAGAGGAAGAGGAAGATGATGAGGATGAGGATGAG 480	
Db	1412	GAAGAAGAAGGGGAGGAGGAAGAGGAAGAGGAAGATGATGAGGATGAGGATGAG 1471	
QY	481	ATATCTCTGGAGGAGCAAGCCCTGTCAAACAAAGTCAAAGGCTGGCCAGAAC 540	
Db	1472	ATATCTCTGGAGGAGCAAGCCCTGTCAAACAAAGGCTGGCCAGAAC 1531	
QY	541	GCGAGCGGGCTAAGAAAAAGCTGGAAAAGAAGAGGAATAAGAGCCAGCGT	600
Db	1532	GCGAGCGGGCTAAGAAAAAGCTGGAAAAGAAGAGGAATAAGAGCCAGCGT	1591
QY	601	AGAGACAAGGCCCTGTGAAAAGGCCAAAGCCACAGCCAGGCCAAGAAGCCAGGATC	660
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QY	661	AAGAAATGAGGCCACGCCCTGGGGCACGGTGCAAAGTGGGCTTCCCTGGCTGTG	720
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QY	721	CTGCAGGCCACAGGGTGCCCTGTCCAGGCCCTCACCCCTCACCTGTGCTGAATGCAACAGGGTG	780
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QY	781	TTGGGGGCAACATGAGAGGCCCTCACCCCAACTCTCCACTTCAGGAGGCCCTAGT	840
Db	1772	TTGGGGGCAACATGAGAGGCCCTCACCCCAACTCTCCACTTCAGGAGGCCCTAGT	1831
QY	841	GAAGGCCAACCTCGGGTACAATAAGTGCCTGGTCAGGAGGCCCTAGT	883
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RESULT	2		
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LOCUS	AX321879		
DEFINITION	Sequence 410 from Patent WO0172295.		
ACCESSION	AX321879		
VERSION	AX321879.1		
KEYWORDS	GI:17906455		
SOURCE			
ORGANISM			
Homo sapiens			
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
REFERENCE			
AUTHORS			
1	Reed, S.G., Lodes, M.J., Mohamath, R., Secrist, H., Benson, D.R., Indrias, C.Y., Henderson, R.A., Fling, S.P., Algate, P.A., Elliot, M., Mannion, J. and Kalos, M.D.		
TITLE			
Compositions and methods for the therapy and diagnosis of lung cancer			
QY	Patent: WO 0172295-A 410 04-OCT-2001;		
Db	CORIXA CORPORATION (US)		
QY	Location/Qualifiers		
Db	1.	.4.23 /organism="Homo sapiens"	
QY	181	GAGAAAGCCAAGAGGAGATGCATCGCTGGAGATCTGCCCGAACCAACCAAGGGAC 240	
Db	1172	GAGAAAGCCAAGAGGAGATGCATCGCTGGAGATCTGCCCGAACCAACCAAGGGAC 1231	
QY	241	AAGAGATGCCAGGGTCACCATGCTCACTCCAGGCCCTCAGTCTCCCCATGGCTCC 300	
Db	1232	AAGAGATGCCAGGGTCACCATGCTCACTCCAGGCCCTCAGTCTCCCCATGGCTCC 1291	
QY	301	ATGGTAGGAGTCAGCTTCCTCCCCAGTTACTTCCAGCTCCGGCTGGCTCAGGCC 360	
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QY	361	GTGTTCCTCAGTGGCCAGGAACGTTAGAACGATCAGACCTAACCTGGAGGGAG 420	
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QY	421	GAAGAAGAAGGGGAGGAGGAAGAGGAAGAGGAAGATGATGAGGATGAGGATGAG 480	
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QY	481	ATATCTCTGGAGGAGCAAGCCCTGTCAAACAAAGTCAAAGGCTGGCCAGAAC 540	
Db	1472	ATATCTCTGGAGGAGCAAGCCCTGTCAAACAAAGGCTGGCCAGAAC 1531	
QY	541	GCGAGCGGGCTAAGAAAAAGCTGGAAAAGAAGAGGAATAAGAGCCAGCGT	600
Db	1532	GCGAGCGGGCTAAGAAAAAGCTGGAAAAGAAGAGGAATAAGAGCCAGCGT	1591
QY	601	AGAGACAAGGCCCTGTGAAAAGGCCAAAGCCACAGCCAGGCCAAGAAGCCAGGATC	660
Db	1592	AGAGACAAGGCCCTGTGAAAAGGCCAAAGCCACACCCAGAGCCAAAGGCCAGGATC	1651
QY	661	AAGAAATGAGGCCACGCCCTGGGGCACGGTGCAAAGTGGGCTTCCCTGGCTGTG	720
Db	1652	AAGAAATGAGGCCACGCCCTGGGGCACGGTGCAAAGTGGGCTTCCCTGGCTGTG	1711
QY	721	CTGCAGGCCACAGGGTGCCCTGTCCAGGCCCTCACCCCTCACCTGTGCTGAATGCAACAGGGTG	780
Db	1712	CTGCAGGCCACAGGGTGCCCTGTCCAGGCCCTCACCCCTCACCTGTGCTGAATGCAACAGGGTG	1771
QY	781	TTGGGGGCAACATGAGAGGCCCTCACCCCAACTCTCCACTTCAGGAGGCCCTAGT	840
Db	1772	TTGGGGGCAACATGAGAGGCCCTCACCCCAACTCTCCACTTCAGGAGGCCCTAGT	1831
QY	841	GAAGGCCAACCTCGGGTACAATAAGTGCCTGGTCAGGAGGCCCTAGT	883
Db	1832	GAAGGCCAACCTCGGGTACAATAAGTGCCTGGTCAGGAGGCCCTAGT	1874
RESULT	2		
AX321879			
LOCUS	AX321879		
DEFINITION	Sequence 410 from Patent WO01722		

Db	327	AAGAAGATGCAGCCGGTCACCATGGCTCACTCCAGGCCAGTCCTCCCCATGGTCTCC	386	Smit, A.F.A. & Green, P. (1996-1997) http://ftp.genome.washington.edu/RM/RepeatMasker.html
Qy	301	ATGGTAGGACTGCAGCTTCTCCCCCAGTTACTTCC	337	Center: Whitehead Institute/ MIT Center for Genome Research Center code: WIBR Web site: http://www-seq.wi.mit.edu
Db	387	ATGGTAGGACTGCAGCTTCTCCCCCAGTTACTTCC	423	Contact: sequence_submissions@genome.wi.mit.edu Center project name: L12352 Center clone name: 67_H_12
RESULT	3			----- ----- project Information
AC091171	AC091171	156347 bp	DNA	linear HTG 23-AUG-2002
LOCUS				PROGRESS ***, 6 unordered pieces.
DEFINITION		Homo sapiens chromosome 8 clone RP11-67H12 map 8, *** SEQUENCING IN		
ACCESSION		AC091171		
VERSION		AC091171.7	GI:22296939	
KEYWORDS		HTG; HTGS_PHASE1; HTGS_FULLTOP; HTGS_ACTIVEFIN		
SOURCE		human.		
ORGANISM		Homo sapiens		
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
REFERENCE	1	(bases 1 to 156347)		
AUTHORS	Birren, B., Nusbaum, C. and Lander, E.			
TITLE	Homo sapiens chromosome 8, clone RP11-67H12			
JOURNAL	Unpublished			
REVERSE	2	(bases 1 to 156347)		
AUTHORS	Birren, B., Linton, L., Nusbaum, C., Lander, E., Allen, N., Anderson, S., Barna, N., Bastien, V., Boguslavsky, L., Boukhalter, B., Brown, A., Camarata, J., Campopiano, A., Chang, J., Choepel, Y., Colangelo, M., Collins, S., Collymore, A., Cooke, P., DeArreilano, K., Dewar, K., Diaz, J.S., Dodge, S., Faro, S., Ferreira, P., FitzHugh, W., Gage, D., Galagan, J., Gardyna, S., Gindl, S., Goyette, M., Graham, L., Grand-Pierre, N., Hagos, B., Heaford, A., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Karatas, A., LaRocque, K., Lamazares, R., Landers, T., Lehoczky, J., Levine, R., Liu, G., MacLean, C., McDonald, P., Marquis, N., Matthews, C., McCarthy, M., McEwan, P., McKernan, K., McPheeetters, R., Meldrim, J., Meneus, L., Mihowa, T., Mlenga, V., Murphy, T., Naylor, J., Nguyen, C., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Pollara, V., Raymond, C., Rettig, R., Rieback, M., Riley, R., Rise, C., Rogov, P., Roman, J., Rosetti, M., Roy, A., Santos, R., Schupback, R., Seaman, S., Severy, P., Sougnez, C., Spencer, B., Strange-Thomann, N., Stojanovic, N., Strauss, N., Subramanian, A., Talamas, J., Tesfaye, S., Theodore, J., Travers, M., Travis, N., Trigilio, J., Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W.J., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.			
TITLE	Direct Submission			
JOURNAL	Submitted (03-APR-2001) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA			
REFERENCE	3	(bases 1 to 156347)		
AUTHORS	Birren, B., Nusbaum, C., Lander, E., Ali, A., Allen, N., Anderson, S., Barna, N., Bastien, V., Bloom, T., Boguslavsky, L., Boukhalter, B., Camarata, J., Chang, J., Chazaro, B., Choepel, Y., Collymore, A., Cook, A., Cooke, P., DeAreilano, K., Dewar, K., Diaz, J.S., Dodge, S., Faro, S., Ferreira, P., FitzGerald, M., Gage, D., Galagan, J., Gardyna, S., Gord, S., Graham, L., Grand-Pierre, N., Hagos, B., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., Landers, T., Levine, R., Lindblad-Toh, K., Liu, G., MacLean, C., McDonald, P., Major, J., Matthews, C., McCarthy, M., Meldrim, J., Meneus, L., Mihowa, T., Mlenga, V., Murphy, T., Naylor, J., Nguyen, C., Nicol, R., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Raymond, C., Rettig, R., Rise, C., Rogov, P., Roman, J., Roy, A., Schauer, S., Schupback, R., Seaman, S., Severy, P., Smith, C., Spencer, B., Strange-Thomann, N., Stojanovic, N., Talamas, J., Tesfaye, S., Theodore, J., Topham, K., Travers, M., Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.			
DEFINITION	Submitted (23-AUG-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA			
COMMENT	All repeats were identified using RepeatMasker.			
RESULT	4			
JOURNAL	Submitted			
DEFINITION	AC023288	AC023288	166878 bp	DNA linear HTG 22-FEB-2001
LOCUS		Homo sapiens chromosome 8 clone RP11-67H12, WORKING DRAFT SEQUENCE,		
ACCESSION	AC023288	15 unordered pieces.		
VERSION	AC023288.11	GI:9280725		

KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.

SOURCE Homo sapiens.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 166878)

AUTHORS Abola, A.P., Bruno, D., Conn, L., Dela Rosa, M., Faulkner, D., Federspiel, N., Glukhov, S., Hansen, N., Herman, Z.S., Hyman, R., Mao, J., Lam, B., Marathe, R., Miranda, M., Morehouse, A.J., Nguyen, M., Oefner, P., Palm, C.J., Ramirez, D., Southwick, A.M., Wilhelmy, J., Yu, S., and Davis, R.W.

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 166878)

AUTHORS Bruno, D., Conn, L., Dela Rosa, M., Faulkner, D., Federspiel, N., Glukhov, S., Hansen, N., Hyman, R., Marathe, R., Morehouse, A.J., Oefner, P., Palm, C.J., Ramirez, D., Wilhelmy, J., Yu, S., and Davis, R.W.

TITLE Direct Submission

JOURNAL Submitted (11-FEB-2000) DNA Sequencing and Technology Center, Stanford University, 855 California Avenue, Palo Alto, CA 94304, USA

COMMENT On Jul 19, 2000 this sequence version replaced gi:8980905.

Center: Stanford DNA Sequencing and Technology Development

Center code: SBSTD

Web site: <http://sequence-www.stanford.edu/group/human/>

Contact: hum-info@sequence.stanford.edu

----- Project Information

Center project name: 836

Center clone name: RP11-67H12

----- Summary Statistics

Sequencing Vector: M13mp18; X02513

Chemistry: Dye-primer; 0% of reads

Chemistry: Dye-terminator Big Dye; 100% of reads

Assembly program: Phrap; version 0.990319

Consensus quality: 151238 bases at least Q40

Consensus quality: 155909 bases at least Q30

Consensus quality: 157935 bases at least Q20

Insert size: 116494; agarose-fp

Insert size: 165478; sum-of-contigs

Quality coverage: 9.4x in Q20 bases; agarose-fp

Quality coverage: 6.6x in Q20 bases; sum-of-contigs.

* NOTE: This is a 'working draft' sequence. It currently

* consists of 15 contigs. The true order of the pieces

* is not known and their order in this sequence record is

* arbitrary. Gaps between the contigs are represented as

* runs of N, but the exact sizes of the gaps are unknown.

* This record will be updated with the finished sequence

* as soon as it is available and the accession number will

* be preserved.

1 2175: contig of 2175 bp in length

2275: gap of unknown length

4472: contig of 2197 bp in length

4572: -gap of unknown length

4573: 4489: contig of 1917 bp in length

6490: 6589: gap of unknown length

8363: contig of 1774 bp in length

8464: 10644: contig of 2181 bp in length

10745: 13373: contig of 2629 bp in length

13473: 13473: gap of unknown length

13474: 17686: contig of 4213 bp in length

17787: 17786: gap of unknown length

26031: 26130: gap of unknown length

33533: 33632: gap of unknown length

33633: 46267: contig of 12635 bp in length

46268: 46367: gap of unknown length

61797: 61896: gap of unknown length

FEATURES

Source

Location/Qualifiers

/organism="Homo sapiens"

/db_xref="taxon:9606"

/chromosome="8"

/clone "RP11-67H12"

/clone_lib="RPCI human BAC library 11"

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/note="assembly_name:Contig22"

2276..4472

/note="assembly_name:Contig24"

4573..6489

/note="assembly_name:Contig25"

6590..8363

/note="assembly_name:Contig28"

8464..10644

/note="assembly_name:Contig31"

10745..13373

/note="assembly_name:Contig33"

13474..17686

/note="assembly_name:Contig34"

17787..26030

/note="assembly_name:Contig35"

26131..33532

/note="assembly_name:Contig36

clone_end:SP6

vector_side:left"

33633..46267

/note="assembly_name:Contig37"

46368..61796

/note="assembly_name:Contig38"

61897..78516

/note="assembly_name:Contig39"

78617..97532

/note="assembly_name:Contig40

clone_end:T7

vector_side:right"

97633..132687

/note="assembly_name:Contig41"

132788..166878

/note="assembly_name:Contig42"

BASE COUNT 41842 a 40044 c 40620 g 42959 t 1413 others

ORIGIN

Query Match 28.4%; Score 262.4; DB 2; Length 166878;

Best Local Similarity 99.6%; Pred. No. 3.2e-54; Matches 263; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 AAAGGCCAAAGCCACAGCCAGAGCCAAGAAGCCAGGATTCAAGAAATCAGGGAGGCCACGCC 680

Db 146754 ACAGGCCAACGCCAGGCCAGAGCCAAGAAGCCAGGATTCAAGAAATCAGGGAGGCCACGCC 146813

QY 681 TTGGGGGCACGGTGCAGTGGCCTTCCTGGGTGTGCTGCGAGGCACAGGGTCCCC 740

Db 146814 TTGGGGGCACGGTGCAGTGGCCTTCCTGGGTGTGCTGCGAGGCACAGGGTCCCC 146873

QY 741 TGTCCAGCCCCCTCCACCTGTGCTGAATGCAACAGGGGTGTGGGGGACATGAGAG 800

Db 146874 TGTCCAGCCCCCTCCACCTGTGCTGAATGCAACAGGGGTGTGGGGGACATGAGAG 146933

QY 801 CCCCTCACCCCCAACCTCTCCACTTCAGGAGCCCCCAGTGAAGAGCCCCAACCTCGGGGT 860

Db 146934 CCCCTCACCCCCAACCTCTCCACTTCAGGAGCCCCCAGTGAAGAGCCCCAACCTCGGGGT 146993

QY 861 CACAATAAGTGCTGGTCAGGA 884

|||||||||||||||||||||

Db 146994 CACAATAAAGTTGCCCTGGTCAGGA 147017

RESULT 5
AC090442
LOCUS AC090442 181714 bp DNA linear HTG 26-JUL-2002
DEFINITION Homo sapiens chromosome 8 clone RP11-868P18, WORKING DRAFT
ACCESSION AC090442
VERSION AC090442.2 GI:14389319
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_CANCELLED.
SOURCE
ORGANISM Homo sapiens.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 181714)
AUTHORS Reichwald, K., Baumgart, C., Blechschmidt, K., Dette, M., Jahn, N.,
Lehmann, R., Menzel, U., Polley, A., Schilhabel, M.B., Schudy, A.,
Siddiqui, R., Taudien, S., Wen, G., Rosenthal, A. and Platzer, M.
TITLE Chromosome 8 genomic sequence
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 181714)
AUTHORS Genome Sequencing Center Jena.
TITLE Direct Submission
COMMENT Submitted (23-FEB-2001) Genome Analysis, Institute of Molecular
Biotechnology, Beutenbergstr. 11, Jena 07745, Germany
On Jun 13, 2001 this sequence version replaced gi:13112136.

Center: Institute of Molecular Biotechnology
Center code: IMB
Web site: <http://genome.imb-jena.de/>
Contact: gscj-submit@genome.imb-jena.de

----- Project Information
Center project name: H522
Center clone name: RP11-868P18

----- Summary Statistics
Sequencing vector: M13; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.990329
Consensus quality: 167442 bases at least Q40
Consensus quality: 173537 bases at least Q30
Consensus quality: 179477 bases at least Q20
Quality coverage: 5.19 x in Q20 bases; sum-of-contigs

Sequence Quality Assessment:
This entry has been annotated with sequence quality
estimates computed by the Phrap assembly program.
All manually edited bases have been reduced to quality 10.
Quality levels above 40 are expected to have less than
1 error in 10,000 bp.
Base-by-base quality values are not generally visible from the
GenBank flat file format but are available as part
of this entry's ASN.1 file.

* NOTE: This is a 'working draft' sequence. It currently
* consists of 15 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 3436: contig of 3436 bp in length
* 3437 3536: gap of unknown length
* 3537 10120: contig of 6584 bp in length
* 10121 10220: gap of unknown length
* 10221 12191: contig of 1971 bp in length
* 12192 12291: gap of unknown length
* 12292 22694: contig of 10403 bp in length
* 22795 22794: gap of unknown length
* 42595 42596 42695: contig of 19801 bp in length
* 42696 43816: contig of 1121 bp in length

BASE COUNT 48155 a 40820 c 40243 g 51096 t 1400 others
ORIGIN

Query Match 28.4%; Score 262.4; DB 2; Length 181714;
Best Local Similarity 99.6%; Pred. No. 3.2e-54;
Matches 263; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 AAAGGCCAAAGCCACAGCCAGAGCCAAGAGGCCAGGATTCAAGAAATGAGGAGCCACGCC 35201
DB 35142 ACAGGCCAAAGCCACAGCCAGAGCCAAGAGGCCAGGATTCAAGAAATGAGGAGCCACGCC 35201

QY 681 TTGGGGGCACGGTCAAAGTGGCCTTCCCTGGCTGTGCTGAGGACAGGGTGTGGGGGGCAACATGAGAG 740
DB 35202 TTGGGGGCACGGTCAAAGTGGCCTTCCCTGGCTGTGCTGAGGACAGGGTGTGGGGGGCAACATGAGAG 35201

QY 741 TGTCCACCCCTCCACCTCTGTCGAATGCAAACAGGGTGTGGGGGGCAACATGAGAG 800
DB 35262 TGTCCACCCCTCCACCTCTGTCGAATGCAAACAGGGTGTGGGGGGCAACATGAGAG 35321

QY 801 CCCCTCACCCCCAACCTCTCCACTTCAGGAGCCCCACTGAAAGAGGCCACCTCGGGGT 860
DB 35322 CCCCTCACCCCCAACCTCTCCACTTCAGGAGCCCCACTGAAAGAGGCCACCTCGGGGT 35381

QY 861 CACAATAAAGTTGCCCTGGTCAGGA 884
DB 35382 CACAATAAAGTTGCCCTGGTCAGGA 35405

RESULT 6
AC087819
LOCUS AC087819 184050 bp DNA linear HTG 09-MAY-2001
DEFINITION Homo sapiens chromosome 8 clone RP11-507M15 map 8, WORKING DRAFT
ACCESSION AC087819
VERSION AC087819.2 GI:13194968
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE
ORGANISM Homo sapiens.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 184050)
 AUTHORS Birren,B., Linton,L., Nusbaum,C. and Lander,E.
 TITLE Homo sapiens chromosome 8, clone RP11-507M15
 JOURNAL Unpublished

REFERENCE 2 (bases 1 to 184050)
 AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Barna,N., Bastien,V., Boguslavkiy,L., Boukhgalter,B., Brown,A., Camarata,J., Campopiano,A., Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cooke,P., DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S., Ferreira,P., FitzHugh,W., Gage,D., Galagan,J., Gardyna,S., Ginde,S., Goyette,M., Graham,L., Grand-Pierre,N., Hagos,B., Heaford,A., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Karatas,A., LaRocque,K., Lamazzares,R., Landers,T., Lehoczky,J., Levine,R., Liu,G., Maclean,C., Macdonald,P., Marquis,N., Matthews,C., McCarthy,M., McEwan,P., McKernan,K., McPheevers,R., Meldrim,J., Meneus,L., Mihowa,T., Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Norbu,C., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,J., Peterson,K., Phunkhang,P., Pierre,N., Pollara,V., Raymond,C., Retta,R., Rieback,M., Riley,R., Rise,C., Rogov,P., Roman,J., Rosetti,M., Roy,A., Santos,R., Schauer,S., Schupback,R., Seaman,S., Severy,P., Sougnez,C., Spencer,B., Strange-Thomann,N., Stojanovic N., Strauss,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J., Travers,M., Travis,N., Trigilio,J., Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G., Zainoun,J., Zembek,I., Zimmer,A. and Zody,M.

TITLE Direct Submission

JOURNAL Submitted (28-JAN-2001) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA

COMMENT On Mar 4, 2001 this sequence version replaced gi:12584317.
 All repeats were identified using RepeatMasker:
 Smit, A.F.A. & Green, P. (1996-1997)
<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

----- Genome Center

Center: Whitehead Institute/ MIT Center for Genome Research

Center project name: L11344

Center clone name: 507_M_15

----- Summary Statistics

Sequencing vector: Plasmid; n/a; 100% of reads
 Chemistry: Dye-terminator Big Dye; 100% of reads
 Assembly program: Phrap; version 0.960731
 Consensus quality: 175465 bases at least Q40
 Consensus quality: 17963 bases at least Q30
 Consensus quality: 181216 bases at least Q20
 Insert size: 170000; agarose-fp
 Insert size: 182150; sum-of-contigs
 Quality coverage: 7.1 in Q20 bases; agarose-fp
 Quality coverage: 6.7 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently consists of 20 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

* 1 29338: contig of 29338 bp in length
 * 29339 29438: gap of 100 bp
 * 29439 29457: contig of 19 bp in length
 * 29458 29557: gap of 100 bp
 * 29558 30186: contig of 629 bp in length
 * 30187 30286: gap of 100 bp
 * 30287 31083: contig of 797 bp in length
 * 31084 31183: gap of 100 bp
 * 31184 311978: contig of 795 bp in length
 * 31979 32078: gap of 100 bp
 * 32079 32748: contig of 670 bp in length
 * 32749 32848: gap of 100 bp

FEATURES source

1. /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="8"
 /map="8"
 /clone="RP11-507M15"
 /clone_lib="RPCI-11 Human Male BAC"
 1. /note="assembly_fragment"
 /clone_end:SP6
 /vector_side:left"
 29439. .29457
 /note="assembly_fragment"
 29558. .30186
 /note="assembly_fragment"
 30287. .31083
 /note="assembly_fragment"
 31184. .31978
 /note="assembly_fragment"
 32079. .32748
 /note="assembly_fragment"
 32849. .34030
 /note="assembly_fragment"
 34131. .35157
 /note="assembly_fragment"
 35258. .72407
 /note="assembly_fragment"
 72508. .75697
 /note="assembly_fragment"
 75798. .78108
 /note="assembly_fragment"
 78109. .82150
 /note="assembly_fragment"
 82251. .88573
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 88674. .93173
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 93274. .101047
 /note="assembly_fragment"
 101148. .111284
 /note="assembly_fragment"
 111385. .130797
 /note="assembly_fragment"
 130798. .130897: gap of 100 bp
 * 130898 152534: contig of 21637 bp in length
 * 152535 152634: gap of 100 bp
 * 152635 182885: contig of 30251 bp in length
 * 182886 182985: gap of 100 bp
 * 182986 184050: contig of 1065 bp in length.

FEATURES source

1. /note="assembly_qualifiers"

	JOURNAL	Submitted (23-FEB-2001) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
	COMMENT	On May 30, 2001 this sequence version replaced 91:14196391.
BASE COUNT	49622 a 42339 c 42431 g 47728 t 1930 others	All repeats were identified using RepeatMasker: Smit, A.F.A. & Green, P. (1996-1997) http://ftp.genome.washington.edu/RM/RepeatMasker.html
ORIGIN		Center: Whitehead Institute/ MIT Center for Genome Research Center code: WIBR Web site: http://www-seq.wi.mit.edu
Query Match	28.4%	Contact: sequence_submissions@genome.wi.mit.edu
Best local Similarity	99.6%	Project Information
Matches	263; Conservative 0;	Center project name: L11354
Mismatches	0;	Center clone name: 868_P_18
Indels	0;	Summary Statistics
Gaps	0;	Sequencing vector: Plasmid; n/a; 100% of reads
QY	621 AAAGGCCAAGCCACAGCCAGGCCAGAGCCAGGATTCAAGAAATGAGGGCCACGCC 680	Chemistry: Dye-terminator Big Dye; 100% of reads
		Assembly program: Phrap; version 0.960731
Db	123140 ACAGGCCAAGCCACAGCCAGGCCAGGATTCAAGAAATGAGGGCCACGCC 123199	Consensus quality: 180698 bases at least Q40
QY	681 TTGGGGGCACGGTGCACAGGGCTTCAGGGGTGTGGCTGCAGGCCACAGGTGCC 740	Consensus quality: 182469 bases at least Q30
		Consensus quality: 183168 bases at least Q20
Db	123200 TTGGGGGCACGGTGCACAGGGCTTCAGGGGTGTGGCTGCAGGCCACAGGTGCC 123259	Insert size: 183000; agarose-fp
QY	741 TGTCCAGCCCCCTCCACCTGTCTGAATGCAAACAGGGTGTGGGGGCAACATGAGAG 800	Insert size: 183544; sum-of-contigs
		Quality coverage: 15.1 in Q20 bases; agarose-fp
Db	123260 TGTCCAGCCCCCTCCACCTGTCTGAATGCAAACAGGGTGTGGGGGCAACATGAGAG 123319	Quality coverage: 15.1 in Q20 bases; sum-of-contigs
QY	801 CCCCTCACCCCCACTCTCCACTTCCAGGGCCCCAGTGAAGAGGCCACCTCGGGT 860	NOTE: This is a 'working draft' sequence. It currently
		consists of 10 contigs. The true order of the pieces
Db	123320 CCCCTCACCCCCACTCTCCACTTCCAGGGCCCCAGTGAAGAGGCCACCTCGGGT 123379	is not known and their order in this sequence record is
QY	861 CACATAAAGTGCCTGGTCAGGA 884	arbitrary. Gaps between the contigs are represented as
		runs of N, but the exact sizes of the gaps are unknown.
Db	123380 CACATAAAGTGCCTGGTCAGGA 123403	This record will be updated with the finished sequence
RESULT	7	* as soon as it is available and the accession number will
AC090471/c		* be preserved.
LOCUS	AC090471	1 24646: contig of 24646 bp in length
DEFINITION	Homo sapiens chromosome 8 clone RP11-868P18 map 8, WORKING DRAFT	*
SEQUENCE	10 unordered pieces.	24747 28060: contig of 3314 bp in length
ACCESSION	AC090471	*
VERSION	AC090471.6	28161 28160: gap of 100 bp
KEYWORDS	HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.	*
SOURCE	Homo sapiens.	*
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	33797 33896: gap of 100 bp
REFERENCE	1 (bases 1 to 18444)	*
AUTHORS	Birren,B., Linton,L., Nusbaum,C. and Lander,E.	33897 41745: contig of 7849 bp in length
JOURNAL	Homo sapiens chromosome 8, clone RP11-868P18	*
REFERENCE	2 (bases 1 to 18444)	41746 41845: gap of 100 bp
AUTHORS	Birren,B., Linton,L., Nusbaum,C., Lander,E., Anderson,S., Barna,N., Bastien,V., Boguslavsky,L., Boukhalter,B., Brown,A., Camarata,J., Campopiano,A., Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cooke,P., DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S., Ferreira,P., FitzHugh,W., Gage,D., Galagan,J., Gardyna,S., Ginde,S., Goyette,M., Graham,L., Grand-Pierre,N., Hagos,B., Heaford,A., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Karatas,A., Larocque,K., Lamazares,R., Landers,T., Lehoczky,J., Levine,R., Liu,G., MacLean,C., MacDonald,P., Marquis,N., Matthews,C., McCarthy,M., McEwan,P., McKernan,K., McPheeters,R., Meldrim,J., Meneus,L., Mihowa,T., Mienga,V., Murphy,T., Naylor,J., Nguyen,C., Norbu,C., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,J., Peterson,K., Phunkhang,P., Pierre,N., Pollara,V., Raymond,C., Retta,R., Rieback,M., Riley,R., Rose,C., Rogov,P., Roman,J., Rosetti,M., Roy,A., Santos,R., Schauer,S., Schupback,R., Seaman,S., Severy,P., Sougnez,C., Spencer,B., Stange-Thomann,N., Stojanovic,N., Strauss,N., Subramanian,A., Talama,J., Tesfaye,S., Theodore,J., Travers,M., Travis,N., Trigilio,J., Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.	52789 52888: gap of 100 bp
FEATURES	source	*
	1. 18444	52889 68506: contig of 15618 bp in length
	1. 18444	68507 68606: gap of 100 bp
	1. 18444	68607 105369 105468: gap of 100 bp
	1. 18444	105469 133826: contig of 28358 bp in length
	1. 18444	133827 133926: gap of 100 bp
	1. 18444	133927 170402: contig of 36476 bp in length
	1. 18444	170403 170502: gap of 100 bp
	1. 18444	170503 184444: contig of 13942 bp in length.
	1. 18444	Location/Qualifiers
	1. 18444	/organism="Homo sapiens"
	1. 18444	/db_xref="taxon:9606"
	1. 18444	/chromosome="8"
	1. 18444	/map="8"
	1. 18444	/clone="RP11-868P18"
	1. 18444	/clone_id="RPCI-11 Human Male BAC"
	1. 18444	misc_feature
	1. 18444	/note="assembly_fragment"
	1. 18444	clone_end:SP6
	1. 18444	vector_side:left"
	1. 18444	24747..28060
	1. 18444	/note="assembly_fragment"
	1. 18444	28161..33796
	1. 18444	/note="assembly_fragment"
	1. 18444	33897..41745
	1. 18444	/note="assembly_fragment"
	1. 18444	/note="assembly_fragment"
TITLE	Direct Submission	/note="assembly_fragment"

misc_feature	52889 . .68506	/note="assembly_fragment"	
misc_feature	68607 . .105368	/note="assembly_fragment"	
misc_feature	105469 . .133826	/note="assembly_fragment"	
misc_feature	133927 . .170402	/note="assembly_fragment"	
misc_feature	170503 . .184444	/note="assembly_fragment"	
clone_end:T7		/note="assembly_fragment"	
vector_side:right"		/note="assembly_fragment"	
BASE COUNT	52113 a 41006 c 41428 g 48985 t	912 others	
Query Match	28.4%	Score 262.4; DB 2; Length 184444;	
Best Local Similarity	99.6%	Pred. No. 3.2e-54;	
Matches	263; Conservative	0; Mismatches 1; Indels 0; Gaps 0;	
FEATURES		Location/Qualifiers	
source	1. .86574	/organism="Homo sapiens"	
		/db_xref="taxon:9606"	
		/map="q12.3-13.2"	
		/clone="CTA-833B7"	
		/clone_1ib="CIT978SK-A2"	
repeat_region	1. .176	/note="AluSp repeat: matches 138. .313 of consensus"	
repeat_region	862. .903	/note="AluJb repeat: matches 212. .254 of consensus"	
repeat_region	1791. .2095	/note="MIR repeat: matches 1. .307 of consensus"	
repeat_region	3532. .3838	/note="complement(2600. .3449) match: GSS: Em:AQ749444"	
repeat_region	3359. .3522	/note="MER58A repeat: matches 43. .207 of consensus"	
repeat_region	10532 . .3838	/note="AluSx repeat: matches 1. .308 of consensus"	
repeat_region	4030. .4288	/note="MLT1J repeat: matches 1. .261 of consensus"	
repeat_region	5050. .5195	/note="match: GSS: Em: AQ321484"	
repeat_region	5291. .5370	/note="LTR41 repeat: matches 4. .144 of consensus"	
repeat_region	5371. .5676	/note="L1ME1 repeat: matches 5526. .5607 of consensus"	
repeat_region	5677. .6252	/note="AluSx repeat: matches 1. .310 of consensus"	
repeat_region	6302. .6485	/note="L1ME1 repeat: matches 5607. .6163 of consensus"	
repeat_region	6873. .7196	/note="L2 repeat: matches 2078. .2265 of consensus"	
repeat_region	6874. .7197	/note="L2 repeat: matches 2078. .2265 of consensus"	
repeat_region	6879. .7190	/note="27 copies 12 mer 66 conserved"	
repeat_region	6884. .7195	/note="13 copies 24 mer 67 conserved"	
repeat_region	6886. .7193	/note="156 copies 2 mer tg 67 conserved"	
repeat_region	6907. .7194	/note="22 copies 14 mer 67 conserved"	
repeat_region	7203. .7332	/note="9 copies 32 mer 69 conserved"	
repeat_region	7347. .7532	/note="L2 repeat: matches 2602. .2750 of consensus"	
repeat_region	7537. .7640	/note="MIR repeat: matches 2. .191 of consensus"	
repeat_region	8152. .8228	/note="MIR repeat: matches 158. .262 of consensus"	
VECTOR:	pbelOBAC11		
IMPORTANT:	This sequence is not the entire insert of clone CTA-833B7. It may be shorter because we only sequence overlap sections once, or longer because we arrange for a small overlap between neighbouring submissions.	The true right end of clone CTF22-24E5 is at 100 in this seq. The start of this sequence overlaps with sequence Z82185.	
LOCUS	HS833B7	PRI 12-DEC-1999	
DEFINITION	Human DNA sequence from clone CTA-833B7 on chromosome 22q12.3-13.2	During sequence assembly data is compared together with a note of the overlapping clone name. Note that variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences only a small overlap as described above.	
LOCUS	HS833B7	86574 bp DNA linear	The following abbreviations are used to associate primary accession numbers given in the feature table with their source database. Em:, EMBL; Sw:, SWISSPROT; Tr:, TREMBL; Wp:, WORMPEP; Information on the WORMPEP database can be found at http://www.sanger.ac.uk/Projects/C_elegans/wormpep CTA-833B7 from the human BAC library described in U-J. Kim et al. (1996 Genomics 34, 213-218).
DEFINITION	Contains the NCF4 gene for cytosolic neutrophil factor 4 (40kD), the 5' part of the CSF2RB gene for granulocyte-macrophage low-affinity colony stimulating factor 2 receptor beta, ESTs, STS and GSS, complete sequence.	Genomics 34, 213-218.	
VERSION	AL008637.1	GI:3136000	
KEYWORDS	HTG; colony stimulating factor; CSF2RB; cytosolic neutrophil factor; NCF4.		
SOURCE	Homo sapiens.		
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
REFERENCE	1 (bases 1 to 86574)		
AUTHORS	Burton,J.		
TITLE	Direct Submission		
JOURNAL	Submitted (08-DEC-1999) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk		
COMMENT	On May 18, 1998 this sequence version replaced gi:2578146. This sequence has been finished according to sequence map criteria as follows. An attempt is made to resolve all sequencing problems, such as compressions and repeats, but not necessarily within known annotated human repeat sequence elements (e.g. Alu). Where the sequence is ambiguous, there is an annotation using the 'unsure' feature key.		
COMMENT	This sequence was generated from part of bacterial clone contigs of human chromosome 22, constructed by the Sanger Centre Chromosome 22 Mapping Group. Further information can be found at http://www.sanger.ac.uk/HGP/Chr22		

REFERENCE 2 (bases 1 to 135206) Raymond,C. and Haugen,E.D.
 AUTHORS Kaul,R.K., Olson,M.V.,
 TITLE Direct Submission
 JOURNAL Submitted (29-JAN-2002) Genome Center, University of Washington,
 Box 352145, Seattle, WA 98195, USA
 COMMENT ----- Genome Center
 Center: University of Washington Genome Center
 Center Code: UWGC
 Web site: <http://www.genome.washington.edu>
 Contact: uwgctgs@u.washington.edu

----- Project Information

Center project name: chr-3
 Center clone name: RP11-114C6 (bc0623)

----- Summary Statistics

Sequencing vector: plasmid; 100% of reads
 Chemistry: Dye-terminator ET; 20% of reads
 Chemistry: dye-terminator Big dye; 80% of reads
 Assembly program: Phrap; version 0.990319
 Consensus quality: 131485 bases at least Q40
 Consensus quality: 133037 bases at least Q30
 Consensus quality: 133846 bases at least Q20
 Insert size: 180200; 27.0% error; agarose-fp
 Insert size: 134306; sum-of-contigs
 Quality coverage: 7.6x in Q20 bases; agarose-fp
 Quality coverage: 10.2x in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
 * consists of 10 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

* 1 2717: contig of 2717 bp in length
 * 2718 2817: gap of unknown length
 * 2818 11010: contig of 8193 bp in length
 * 1101 11110: gap of unknown length
 * 1111 11111: contig of 7341 bp in length
 * 18452 18551: gap of unknown length
 * 18552 28925: contig of 10374 bp in length
 * 28926 29025: gap of unknown length
 * 29026 39161: contig of 10036 bp in length
 * 39162 46549: contig of 7388 bp in length
 * 46550 46649: gap of unknown length
 * 46650 56395: contig of 9746 bp in length
 * 56396 56496: gap of unknown length
 * 56496 79127: contig of 22632 bp in length
 * 79128 79228: gap of unknown length
 * 79228 99937: contig of 20710 bp in length
 * 99938 100037: gap of unknown length
 * 100038 135206: contig of 35169 bp in length.

FEATURES

source

1. .135206

/organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="3"
 /clone="RP11-114C6"
 /clone_libr="RPCI human BAC library 11"
 misc_feature
 1. .2717
 /note="assembly_name:Contig14"
 misc_feature
 1. .1010
 /note="assembly_name:Contig15"
 misc_feature
 1. .18451
 /note="assembly_name:Contig16"
 misc_feature
 1. .28925
 /note="assembly_name:Contig17"
 misc_feature
 1. .39061
 /note="assembly_name:Contig18"
 misc_feature
 1. .39162
 /note="assembly_name:Contig19"
 misc_feature
 1. .46650
 /note="assembly_name:Contig19"

RESULT 10

AC093557 LOCUS AC093557 149940 bp DNA linear PRI 24-MAR-2002
 DEFINITION Homo sapiens chromosome 3 clone RP11-56P22, complete sequence.
 ACCESSION AC093557 AC022225
 VERSION AC093557.3 GI:19698701
 KEYWORDS HTG.

SOURCE

ORGANISM Homo sapiens
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Futheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 149940)
 AUTHORS Kaul,R.K., Olson,M.V., Zhou,Y., James,R.A., Rouse,G., Wu,Z.,
 Saenphimmachak,C., Phelps,K.A., Raymond,C. and Haugen,E.D.
 TITLE JOURNAL
 REFERENCE 2 (bases 1 to 149940)
 AUTHORS Kaul,R.K., Olson,M.V., Raymond,C., Clendenning,J., Ivey,R.G. and

TITLE	Haugen, E.D.	8696	8608	3232	3238	10777	10725
JOURNAL	Direct Submission	6	<800	6382	6740	-----	2067
REFERENCE	Submitted (01-SEP-2001) Genome Center, University of Washington, Box 352145, Seattle, WA 98195, USA	1938	1915	512	<800	8879	9137
AUTHORS	Kaul, R.K., Olson, M.V., Zhou, Y., James, R.A., Rouse, G., Wu, Z., Sacchimimachak, C., Phelps, K.A., Raymond, C. and Haugen, E.D.	2860	2886	449	<800	4717	4762
JOURNAL	Direct Submission	665	<800	3551	3535	1161	1132
COMMENT	Submitted (24-MAR-2002) Genome Center, University of Washington, Box 352145, Seattle, WA 98195, USA	On Mar 24, 2002 this sequence version replaced 91:18087686.	1137	1166	66	<800	3316
-----	Genome Center	3903	3847	4029	4016	7117	7092
Center: University of Washington Genome Center	Center Code: UWGC	Web site: http://www.genome.washington.edu	357	<800	1886	601	<800
Contact: uwgchtgs@u.washington.edu	Drafting Center: BCM	Project Information	2519	2497	379	<800	14637
Center project name: chr-3	Center clone name: Rp11-56p22 (bcc0176)	212	<800	5099	5054	23604	23653
-----	Summary Statistics	3478	3509	2949	3028	2916	2926
Sequencing vector: M13; L08821; 52% of reads	Sequencing vector: plasmid; 48% of reads	2469	2497	5004	5054	2176	2167
Sequencing vector: plasmid; L08752; 0% of reads	Chemistry: Dye-terminator ET; 1% of reads	873	900	1085	1067	556	<800
Chemistry: dye-primer Bodipy; 1% of reads	Chemistry: dye-terminator Big dye; 82% of reads	279	<800	1671	1632	3689	3724
Assembly program: Phrap; version 0.990319	Consensus quality: 149854 bases at least Q40	5376	5312	393	<800	2880	2926
Consensus quality: 149935 bases at least Q30	Consensus quality: 149940 bases at least Q20	2045	2067	8291	8472	7884	7435
Insert size: 149940; sum-of-contigs	Quality coverage: 8.3x in Q20 bases; sum-of-contigs	1963	1915	1962	1892	565	<800
-----	Overlapping Sequences:	1172	1166	7255	7042	3478	3460
5': RP11-237P23 (UWGC:bc0783) AC112223	3': RP11-114C6 (UWGC:bc0623) AC108486	1272	1307	2118	2170	2658	2665
-----	Sequence Quality Assessment:	1083	1037	1169	1168	741	744
This entry has been annotated with sequence quality estimates computed by the Phrap assembly program.	All manually edited bases have been reduced to quality zero.	9619	9736	1330	1292	2895	2926
Quality levels above 40 are expected to have less than 1 error in 10,000 bp.	Base-by-base quality values are not generally visible from the GenBank flat file format but are available as part of this entry's ASN.1 file.	1642	1625	235	<800	11488	11677
-----	Sequence Validation:	199	<800	1294	1292	1498	1521
This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., Phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest.	This sequence has been validated by Multiple Complete Digest fingerprinting. Comparison of the experimentally derived digest fragments with sequence-predicted fragments is given below. The electronically-digested sequence consists of both insert and vector, in order to accurately represent the entire circular BAC. Small fragments below a variable cutoff (approximately 400-800 bp) are not resolved in the fingerprint and hence do not appear in the table. There are no significant remaining discrepancies between the experimental and predicted values. Uniquely ordered fragments are separated by dashed lines.	3489	3509	857	901	2400	2416
EcoRI	HindIII	BglII	1033	1037	761	768	1978
SeqDerMap	FngrPrt	SeqDerMap	FngrPrt	SeqDerMap	FngrPrt	SeqDerMap	FngrPrt
-----	-----	-----	4025	4005	265	<800	1346
-----	-----	-----	14230	14884	3833	3824	2429
-----	-----	-----	5750	5785	7946	7558	12
-----	-----	-----	<800	-----	-----	-----	<800

Qy	246 GATGCCAGCCGGTCACCATGGCTCACTCCAGGCCCTCAGTCCCTCCCCATGGTCTCCATGGT 305	Qy	333 TTTCCAGCTCGGGCTGGCTCAGGACCCGGTTCTCAGTCCCTCAGTGGCCAGGAACGTTATGAAGC 392
Db	200 GGAAAACCGTTCGGATTGCCAGTCTAAAGCCTCTATTTACCCATGGCAACCATGGT 259	Db	416 TTCCGGTTAAAGCTGGTTCCGGCCACTGTACATCAGTGGTCA----- 460
Qy	306 AGGAGTGCAGCTTCTCCCCCAGTTACTTCCAGCTCCGGCTGGCTCAGGACCCGTGTT 365	Qy	393 ATCAGACCTAACCTGGGGAGGGAGGAAGAAGGGGGAGGAAGGAAGA 452
Db	260 GGGCATGAGCTGACCCCTCCAGTTACTTCCGGTTAAAGCTGGTCCGGCCAGTGT 319	Db	461 -----ACACGTAGCGATGGAGAAGATTACTCATGGCAGAAGGAAGATGA 511
Qy	366 CCTCAGTGGCCAGAACGTATGAAGCATCAGACCTAACCTGGGGAGGGAGGA 425	Qy	453 GGAAGATGAGGGATGAGGATGAGGATATCTCTGGAGGAGCAAGCCCTGTCAAACCA 512
Db	320 CATCAGTGGTCACACACGTAGCAATGGAGAAGATTAATCTCATGGCAGAAGGAAGATGA 379	Db	512 GGAAGCTGAAGGAGGAGGAAGAAGAGAAGAAGATCAAGAATCTCCACCCAAAGC 571
Qy	426 AGAAGGGAGGGAGGGAGGAAGAGGA 455	Qy	513 AGTCAAAGGCTGGGCCCAGAACGGCGAGGGCTAAGAAAAAAAGCTGGAAA 572
Db	380 AGGAGAAGAGGAGGAGGAAGGAAGA 409	Db	572 TGTAAGAGGCCCTGGGCTTACCAAAAGCAGGCCAGGCAAAGAGNAGAACTTGACAA 631
SOURCE	Xenopus laevis.	SOURCE	Xenopus laevis.
ORGANISM	Xenopus laevis.	ORGANISM	Xenopus laevis.
RESULT	12	RESULT	12
XLNUPLR2	XLNUPLR2	XLNUPLR2	XLNUPLR2
LOCUS	800 bp	LOCUS	800 bp
DEFINITION	mRNA for nucleoplasmin.	DEFINITION	mRNA for nucleoplasmin.
ACCESSION	X04766	ACCESSION	X04766
VERSION	X04766.1	VERSION	X04766.1
KEYWORDS	nucleoplasmin.	KEYWORDS	nucleoplasmin.
TITLE	Nucleoplasmin cDNA sequence reveals polyglutamic acid tracts and a cluster of sequences homologous to putative nuclear localization signals	TITLE	Nucleoplasmin cDNA sequence reveals polyglutamic acid tracts and a cluster of sequences homologous to putative nuclear localization signals
JOURNAL	EMBO J. 6 (1), 69-74 (1987)	JOURNAL	EMBO J. 6 (1), 69-74 (1987)
MEDLINE	87218476	MEDLINE	87218476
PUBMED	2884102	PUBMED	2884102
FEATURES	Location/Qualifiers	FEATURES	Location/Qualifiers
SOURCE	1. .800	SOURCE	1. .800
CDS	/organism="Xenopus laevis"	CDS	/organism="Xenopus laevis"
	/db_xref="taxon:8355"		/db_xref="taxon:8355"
	114. .716		114. .716
	/note="nucleoplasmin (AA 1-200)"		/note="nucleoplasmin (AA 1-200)"
	/codon_start=1		/codon_start=1
	/protein_id="CAA28460.1"		/protein_id="CAA28460.1"
	/db_xref="GI:64940"		/db_xref="GI:64940"
	/translation="MASTVSNTSKLEKPVSLIWCCELNEQDKTFEEFKVEDDEEKECEHQI ALRTVCLGDKAKDEFNIVEIVTOEGAEKSVPIATLKPSILPMATMVGIELTPPVTE RLKAGSGPPLYISGQHVAEEDYDWAEEDEGEAEGEEEEEEEDQESPPPKAVRPAAT KKAGQAKKKLDKEDSESEEDSPKKKGAGGRGRKPAKK"		/translation="MASTVSNTSKLEKPVSLIWCCELNEQDKTFEEFKVEDDEEKECEHQI ALRTVCLGDKAKDEFNIVEIVTOEGAEKSVPIATLKPSILPMATMVGIELTPPVTE RLKAGSGPPLYISGQHVAEEDYDWAEEDEGEAEGEEEEEEEDQESPPPKAVRPAAT KKAGQAKKKLDKEDSESEEDSPKKKGAGGRGRKPAKK"
PolyA_site	800	PolyA_site	800
	/note="polyA site"		/note="polyA site"
BASE COUNT	1944 a	BASE COUNT	1944 a
ORIGIN	1491 C	ORIGIN	1491 C
	1486 g		1486 g
	1929 t		1929 t
	368 others		368 others
Query Match	10.4%	Query Match	10.1%
Best Local Similarity	54.9%	Best Local Similarity	3.5%
Matches	284	Matches	14
保守性	0	保守性	257
Mismatches	188	Mismatches	125
Indels	45	Indels	0
Gaps	3;	Gaps	0;
ORIGIN	250 a	ORIGIN	250 a
BASE COUNT	153 c	BASE COUNT	153 c
ORIGIN	222 g	ORIGIN	222 g
	175 t		175 t
Query Match	10.4%	Query Match	9.62%
Best Local Similarity	54.9%	Best Local Similarity	54.9%
Pred.	No.	Pred.	No.
Matches	3.4e-13	Matches	3.4e-13
Conservative	0	Conservative	0
Mismatches	188	Mismatches	188
Indels	45	Indels	45
Gaps	3;	Gaps	3;
ORIGIN	250 a	ORIGIN	250 a
BASE COUNT	153 c	BASE COUNT	153 c
ORIGIN	222 g	ORIGIN	222 g
Query Match	10.4%	Query Match	9.62%
Best Local Similarity	54.9%	Best Local Similarity	54.9%
Pred.	No.	Pred.	No.
Matches	3.4e-13	Matches	3.4e-13
Conservative	0	Conservative	0
Mismatches	188	Mismatches	188
Indels	45	Indels	45
Gaps	3;	Gaps	3;
ORIGIN	250 a	ORIGIN	250 a
BASE COUNT	153 c	BASE COUNT	153 c
ORIGIN	222 g	ORIGIN	222 g
Query Match	10.4%	Query Match	9.62%
Best Local Similarity	54.9%	Best Local Similarity	54.9%
Pred.	No.	Pred.	No.
Matches	3.4e-13	Matches	3.4e-13
Conservative	0	Conservative	0
Mismatches	188	Mismatches	188
Indels	45	Indels	45
Gaps	3;	Gaps	3;
ORIGIN	250 a	ORIGIN	250 a
BASE COUNT	153 c	BASE COUNT	153 c
ORIGIN	222 g	ORIGIN	222 g
Query Match	10.4%	Query Match	9.62%
Best Local Similarity	54.9%	Best Local Similarity	54.9%
Pred.	No.	Pred.	No.
Matches	3.4e-13	Matches	3.4e-13
Conservative	0	Conservative	0
Mismatches	188	Mismatches	188
Indels	45	Indels	45
Gaps	3;	Gaps	3;
ORIGIN	250 a	ORIGIN	250 a
BASE COUNT	153 c	BASE COUNT	153 c
ORIGIN	222 g	ORIGIN	222 g
Query Match	10.4%	Query Match	9.62%
Best Local Similarity	54.9%	Best Local Similarity	54.9%
Pred.	No.	Pred.	No.
Matches	3.4e-13	Matches	3.4e-13
Conservative	0	Conservative	0
Mismatches	188	Mismatches	188
Indels	45	Indels	45
Gaps	3;	Gaps	3;
ORIGIN	250 a	ORIGIN	250 a
BASE COUNT	153 c	BASE COUNT	153 c
ORIGIN	222 g	ORIGIN	222 g
Query Match	10.4%	Query Match	9.62%
Best Local Similarity	54.9%	Best Local Similarity	54.9%
Pred.	No.	Pred.	No.
Matches	3.4e-13	Matches	3.4e-13
Conservative	0	Conservative	0
Mismatches	188	Mismatches	188
Indels	45	Indels	45
Gaps	3;	Gaps	3;
ORIGIN	250 a	ORIGIN	250 a
BASE COUNT	153 c	BASE COUNT	153 c
ORIGIN	222 g	ORIGIN	222 g
Query Match	10.4%	Query Match	9.62%
Best Local Similarity	54.9%	Best Local Similarity	54.9%
Pred.	No.	Pred.	No.
Matches	3.4e-13	Matches	3.4e-13
Conservative	0	Conservative	0
Mismatches	188	Mismatches	188
Indels	45	Indels	45
Gaps	3;	Gaps	3;
ORIGIN	250 a	ORIGIN	250 a
BASE COUNT	153 c	BASE COUNT	153 c
ORIGIN	222 g	ORIGIN	222 g
Query Match	10.4%	Query Match	9.62%
Best Local Similarity	54.9%	Best Local Similarity	54.9%
Pred.	No.	Pred.	No.
Matches	3.4e-13	Matches	3.4e-13
Conservative	0	Conservative	0
Mismatches	188	Mismatches	188
Indels	45	Indels	45
Gaps	3;	Gaps	3;
ORIGIN	250 a	ORIGIN	250 a
BASE COUNT	153 c	BASE COUNT	153 c
ORIGIN	222 g	ORIGIN	222 g
Query Match	10.4%	Query Match	9.62%
Best Local Similarity	54.9%	Best Local Similarity	54.9%
Pred.	No.	Pred.	No.
Matches	3.4e-13	Matches	3.4e-13
Conservative	0	Conservative	0
Mismatches	188	Mismatches	188
Indels	45	Indels	45
Gaps	3;	Gaps	3;
ORIGIN	250 a	ORIGIN	250 a
BASE COUNT	153 c	BASE COUNT	153 c
ORIGIN	222 g	ORIGIN	222 g
Query Match	10.4%	Query Match	9.62%
Best Local Similarity	54.9%	Best Local Similarity	54.9%
Pred.	No.	Pred.	No.
Matches	3.4e-13	Matches	3.4e-13
Conservative	0	Conservative	0
Mismatches	188	Mismatches	188
Indels	45	Indels	45
Gaps	3;	Gaps	3;
ORIGIN	250 a	ORIGIN	250 a
BASE COUNT	153 c	BASE COUNT	153 c
ORIGIN	222 g	ORIGIN	222 g
Query Match	10.4%	Query Match	9.62%
Best Local Similarity	54.9%	Best Local Similarity	54.9%
Pred.	No.	Pred.	No.
Matches	3.4e-13	Matches	3.4e-13
Conservative	0	Conservative	0
Mismatches	188	Mismatches	188
Indels	45	Indels	45
Gaps	3;	Gaps	3;
ORIGIN	250 a	ORIGIN	250 a
BASE COUNT	153 c	BASE COUNT	153 c
ORIGIN	222 g	ORIGIN	222 g
Query Match	10.4%	Query Match	9.62%
Best Local Similarity	54.9%	Best Local Similarity	54.9%
Pred.	No.	Pred.	No.
Matches	3.4e-13	Matches	3.4e-13
Conservative	0	Conservative	0
Mismatches	188	Mismatches	188
Indels	45	Indels	45
Gaps	3;	Gaps	3;
ORIGIN	250 a	ORIGIN	250 a
BASE COUNT	153 c	BASE COUNT	153 c
ORIGIN	222 g	ORIGIN	222 g
Query Match	10.4%	Query Match	9.62%
Best Local Similarity	54.9%	Best Local Similarity	54.9%
Pred.	No.	Pred.	No.
Matches	3.4e-13	Matches	3.4e-13
Conservative	0	Conservative	0
Mismatches	188	Mismatches	188
Indels	45	Indels	45
Gaps	3;	Gaps	3;
ORIGIN	250 a	ORIGIN	

QY 724 CAGGCACAGGGTCCCCCTGTCCAGCCCTCACCTG 759 * * * * *
Db 1081 RRRRRRRRRRATCGCAAGCTCCTCGACCTG 1046 ::::: :::::
RESULT 14
AC125180 AC125180 198421 bp DNA linear HTG 20-JUN-2002
LOCUS DEFINITION Mus musculus chromosome UNK clone RP23-322k1, WORKING DRAFT
SEQUENCE, 30 unordered pieces.
ACCESSION AC125180
VERSION AC125180.1 GI:21490699
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 198421)
AUTHORS McPherson, J.D. and Waterston, R.H.
TITLE The sequence of *Mus musculus* clone
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 198421)
AUTHORS McPherson, J.D. and Waterston, R.H.
TITLE Direct Submission
JOURNAL Submitted (20-JUN-2002) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
COMMENT
----- Genome Center -----
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: <http://genome.wustl.edu/gsc/index.shtml>
Contact: submissions@wustl.edu
----- Project Information -----
Center project name: M_BA0322K01
----- Summary Statistics -----
Sequencing vector: M13; 0%
Sequencing vector: plasmid; 100%
Chemistry: Dye-primer ET; 0% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 186437 bases at least Q40
Consensus quality: 189477 bases at least Q30
Consensus quality: 191697 bases at least Q20
Insert size: 20300; agarose-fp
Insert size: 196692; sum-of-contigs
Quality coverage: 4.53 in Q20 bases; agarose-fp
Quality coverage: 4.25 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 30 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 1076: contig of 1076 bp in length
* 1077 1176: gap of unknown length
* 1177 2506: contig of 1330 bp in length
* 2507 2606: gap of unknown length
* 2607 4336: contig of 1730 bp in length
* 4337 4436: gap of unknown length
* 4437 5587: contig of 1151 bp in length
* 5588 5688: gap of unknown length
* 5688 6909: contig of 1222 bp in length
* 6910 7009: gap of unknown length
* 7010 8416: contig of 1407 bp in length
* 8417 8516: gap of unknown length
* 8517 10353: contig of 1837 bp in length
* 10354 10453: gap of unknown length
* 10454 12880: contig of 2427 bp in length
* 12881 12980: gap of unknown length

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1. .198421
/organism="Mus musculus"
/db_xref="taxon:10090"
/chromosome="UNK"
/clone="RP23-322k1"
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1. .1076
/note="assembly_name:Contig24"
misc_feature
1177. .2506
/note="assembly_name:Contig28"
misc_feature
2607. .4336
/note="assembly_name:Contig29"
misc_feature
4437. .5587
/note="assembly_name:Contig30"
5688. .6909
/note="assembly_name:Contig33"
misc_feature
7010. .8416
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8517. .10353
/note="assembly_name:Contig35"
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10454. .12880
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12981. .15704
/note="assembly_name:Contig37"
15805. .18635
/note="assembly_name:Contig38"
18636. .21653
/note="assembly_name:Contig39"
18636. .23575
/note="assembly_name:Contig40"

AUTHORS	McPherson, J.D. and Waterston, R.H.
TITLE	Direct Submission
JOURNAL	Submitted (23-MAY-2002) Genome Sequencing Center, 4444 Parkway, St. Louis, MO 63108, USA
COMMENT	
misc_feature	/note="assembly_name:Contig41"
misc_feature	26632. .30435
misc_feature	/note="assembly_name:Contig42"
misc_feature	30536. .35803
misc_feature	/note="assembly_name:Contig43"
misc_feature	35904. .41090
misc_feature	/note="assembly_name:Contig44"
misc_feature	41191. .46181
misc_feature	/note="assembly_name:Contig45"
misc_feature	46282. .53388
misc_feature	/note="assembly_name:Contig46"
misc_feature	53489. .61060
misc_feature	/note="assembly_name:Contig47"
misc_feature	61161. .68114
misc_feature	/note="assembly_name:Contig48"
misc_feature	68215. .73516
misc_feature	/note="assembly_name:Contig49"
misc_feature	73617. .80218
misc_feature	/note="assembly_name:Contig50"
misc_feature	80319. .87536
misc_feature	/note="assembly_name:Contig51"
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misc_feature	/note="assembly_name:Contig52"
misc_feature	97323. .105689
misc_feature	/note="assembly_name:Contig53"
misc_feature	105790. .123827
misc_feature	/note="assembly_name:Contig54"
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	/note="assembly_name:Contig20"
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SOURCE	

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Job time : 46614 secs

DR	P-PSDB; AAB21047.
XX	
PT	Novel nucleic acid binding proteins, used to identify agonists and antagonists of them, for the treatment of reproductive, immunological, neurological and cell proliferative disorders including cancer -
PT	
XX	
PS	Claim 4; Page 178; 180pp; English.
XX	
CC	Sequences AAA72382-A72436 represent cDNAs encoding novel human nucleic acid-binding proteins (NuABPs; AAB20997-B21051). These cDNAs were produced by extension from an appropriate EST (expressed sequence tag) using primers designed using the EST. The invention also relates to expression constructs, host cells and transgenic organisms comprising a human NuABP nucleic acid, recombinant production of the human NuABPs, and antibodies against the human NuABPs, and also to methods of screening modulators of human NuABP activity or expression. The human NuABPs, and their agonists and antagonists are used to treat diseases associated with overexpression or underexpression of functional NuABPs. Human NuABP proteins and nucleotides, and NuABP agonists and antagonists can be used to diagnose, treat and prevent reproductive, immunological, neurological and cell proliferative disorders. Reproductive disorders that may be treated using compositions of the invention include infertility, endometriosis, disruptions of the menstrual cycle and disruptions of spermatogenesis. Immunological disorders that may be treated include AIDS, allergies, and autoimmune disorders such as multiple sclerosis, rheumatoid arthritis, diabetes and systemic lupus erythematosus. Neurological disorders that may be treated include epilepsy, neurodegenerative conditions such as Alzheimer's disease and Parkinson's disease, prion diseases such as Creutzfeldt-Jakob disease, and mental disorders such as schizophrenia. Cell proliferative disorders that may be treated include a wide variety of cancers, and also arteriosclerosis, atherosclerosis, cirrhosis and psoriasis.
XX	
SQ	Sequence 1048 BP; 256 A; 289 C; 338 G; 165 T; 0 other;
Query	92.9%; Score 858; DB 21; Length 1048;
Best Local Similarity	100.0%; Pred. No. 3.6e-196;
Matches	858; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy	1 CAGGCCGCTTCTGCCGGAGCCATGAATCTCAGTAGGCCAGCACGGAGAAAG 60
Db	178 CAGGCCGCTTCTGCCGGAGCCATGAATCTCAGTAGGCCAGCACGGAGAAAG 237
Qy	61 GCAGTGACCGACCGGTGCTCTGGGCTGCGAGCTCAGTCAGGAGGGACTGGACCTTC 120
Db	238 GCAGTGACCGACCGGTGCTCTGGGCTGCGAGCTCAGTCAGGAGGGACTGGACCTTC 297
Qy	121 AGACCCCAGCTGGAGGGAAAGCAGAGCTGGCTCATACGATTGCTGGGG 180
Db	298 AGACCCCAGCTGGAGGGAAAGCAGAGCTGGCTCATACGATTGCTGGGG 357
Qy	181 GAGAAAGCCAAGAGAGATGCATCGCGTGGAGATCCTGCCCAACAGGAGAC 240
Db	358 GAGAAAGCCAAGAGAGATGCATCGCGTGGAGATCCTGCCCAACAGGAGAC 417
Qy	241 AAGAAAGATGCAGCCGGTCAACATTGCCTCACTCCAGGCTCAGTCTCCCCATGGTCTCC 300
Db	418 AAGAAAGATGCAGCCGGTCAACATTGCCTCACTCCAGGCTCAGTCTCCCCATGGTCTCC 477
Qy	301 ATGGTAGGAGTGCAGCTTCTCCCCAGTTACTTCCAGCTCCGGCTCAGGACCC 360
Db	478 ATGGTAGGAGTGCAGCTTCTCCCCAGTTACTTCCAGCTCCGGCTCAGGACCC 537
Qy	361 GTGTTCTCAGGGCCAGAACGTTATGAAGCATCAGACCTAACCTGGGAGGAGGAG 420
Db	538 GTGTTCTCAGGGCCAGAACGTTATGAAGCATCAGACCTAACCTGGGAGGAGGAG 597
Qy	421 GAAGAAGAAGGGAGGAGGAAGAGGAAGAGGAAGAGGAAGAGGAAGAGGAAG 480
Db	598 GAAGAAGAAGGGAGGAGGAAGAGGAAGAGGAAGAGGAAGAGGAAGAGGAAG 657
Qy	481 ATATCTGGAGGACCAAAGCCCTGTCAACAAGTCAAAGGCTGGTCCCCCAGAACAGCAG 540
DB	658 ATATCTGGAGGACCAAAGCCCTGTCAACAAGGCTGGTCCCCCAGAACAGCAG /1
Qy	541 GCGAGGGGGCTAAGAAAAAAGCTGAAAGAAGAAGAGGAATAAGGCCAGGTT 600
PT	
PT	
DB	718 GCGAGGGGGCTAAGAAAAGCTGAAAGAAGAAGAGGAATAAGGCCAGGTT 777
Qy	601 AGAGACAAAGCCCTGTGAAAGGCCAAAGCACGCCAGGCCAGAGCCAGGATC 660
XX	
CC	778 AGAGACAAGGCCCTGTGAAAGGCCAAAGGCCACAGCCAGGCCAGGCCAGGATC 837
Db	661 AAGAAATGAGGGGCCACGCCCTGGGGCACGGGTGCAAAGTGGCCTTCCCCTGGGCTGTG 720
Qy	661 AAGAAATGAGGGGCCACGCCCTGGGGCACGGGTGCAAAGTGGCCTTCCCCTGGGCTGTG 897
Db	838 AAGAAATGAGGGGCCACGCCCTGGGGCACGGTCAAGTGGCCTTCCCCTGGGCTGTG 957
Qy	721 CTGCAGGCACAGGGTCCCCCTGTCAGGCCACAGGGTG 780
Db	898 CTGCAGGCACAGGGTCCCCCTGTCAGGCCACACTGTGTCATGCAACAGGGTG 1017
Qy	781 TTGGGGGGCAACATGAGAGGCCCTACCCCCACTTCACTTCAGGAGGGGGCAGT 840
Db	958 TTGGGGGGCAACATGAGAGGCCCTACCCCCACTTCACTTCAGGAGGGGGCAGT 1035
Qy	841 GAAGAGCCCCACCTCGGG 858
Db	1018 GAAGAGCCCCACCTCGGG 1035
RESULT	2
AAD00296	
ID	AAD00296 standard; cDNA; 1019 BP.
XX	
AC	AAD00296;
XX	
DT	05-SEP-2000 (first entry)
XX	
DE	Mouse oocyte-specific 01-236 cDNA clone.
XX	
KW	oocyte-specific; ovary; 01-236; mouse; Npm2; gynaecological; treatment; nucleoplasmin; cell proliferative disorder; cell degenerative disorder; contraceptive; ovulation; signalling pathway; human infertility; cancer; screen; modulator; ss.
KW	
XX	
OS	Mus sp.
XX	
FH	Key Location/Qualifiers
FT	CDS /*tag= a
FT	/product= "Mouse oocyte-specific protein, 01-236"
FT	/note= "Identical to mouse Npm2 protein with the exception of one residue"
FT	
XX	
PN	WO2000024755-A1.
XX	
PD	04-MAY-2000.
XX	
PF	28-OCT-1999; 99WO-US25209.
XX	
PR	28-OCT-1998; 98US-0106020.
XX	
PA	(BAYU) BAYLOR COLLEGE MEDICINE.
XX	
PI	Matzuk MM, Wang P;
XX	
DR	WPI; 2000-350684/30.
XX	
DR	P-PSDB; AAV70950.
XX	
PT	01-180, 01-184 and 01-236 polypeptides and nucleic acids encoding them, useful for evaluating potential contraceptives to block ovulation in a reversible manner -
XX	
PS	Claim 22; Fig 5; 54pp; English.
XX	
CC	The present sequence is the mouse oocyte-specific gene Npm2, complete

QY 61 GCAGTGACGACCGTGCCTGGGCTCGAGGCTCAGTCAGGAGGGACTTGGACCTC 120
 CC CC
 CC DB 147 GCAGTGACGACCGTGCCTGGGCTCGAGGCTCAGTCAGGAGGGACTTGGACCTC 206
 CC CC
 CC QY 121 AGACCCAGCTGGAGGGAAAGCAGAGCTGCAGGCTTGCT 180
 CC CC
 CC DB 207 AGACCCAGCTGGAGGGAAAGCAGAGCTGCAGGCTTGCT 266
 CC CC
 CC QY 181 GAGAAGCCAAAGAGGAGATGCATCGCGTGGAGATCTGCCAGCAACAGGAGAC 240
 CC CC
 CC DB 267 GAGAAAGCCAAAGAGGAGATGCATCGCGTGGAGATCTGCCAGCAACAGGAGAC 326
 CC CC
 CC QY 241 ATGGTAGGAGTGCAGCTTCTCCCCAGTTCC 337
 CC CC
 CC DB 327 ATGGTAGGAGTGCAGCTTCTCCCCAGTTCC 423
 CC CC
 CC CC RESULT 4
 ID ABK83560/c
 ID ABK83560 standard; cDNA; 86574 BP.
 AC AC
 XX XX
 DT DT
 XX XX
 DE DE
 XX XX
 KW Human; ss; granulocytic cell; DNA chip; bacterial infection;
 KW viral infection; parasitic infection; protozoal infection;
 KW fungal infection; sterile inflammatory disease; psoriasis;
 KW rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
 KW cardiac reperfusion injury; renal reperfusion injury; ARDS;
 KW adult respiratory distress syndrome; inflammatory bowel disease;
 KW Crohn's disease; ulcerative colitis; periodontal disease;
 KW granulocyte activation; chronic inflammation; allergy.
 OS Homo sapiens.
 PN WO200228999-A2.
 PD PD
 XX XX
 PF PF
 XX XX
 PR PR
 XX PA
 (GENE-) GENE LOGIC INC.
 PI Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;
 XX DR WPI; 2002-435328/46.
 PT Detecting granulocyte activation by detecting differential expression
 PT of genes associated with granulocyte activation, which serves as
 PT diagnostic markers that is useful for monitoring disease states and
 PT drug toxicity -
 XX PS
 Claim 1; SEQ ID NO 131; 114pp; English.

The invention relates to detecting (M1) granulocyte (GC) activation (GCA), by detecting the level of expression of gene(s) (Gs) identified by DNA chip analysis as given in the specification, and comparing the expression level to an expression level in an unactivated GC, where differential expression of Gs is indicative of GCA. Also included are modulating (M2) GA by contacting GC with an agent that alters the expression of at least one gene in Gs; (2) screening (M3) for an agent capable of modulating GCA or an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease using the

QY 548 TGGCTAAGAAAAAGCTGGAAAAGAAGA-----AGAGGAATAAGAGC 593
 DB 16108 TTGCGAAGAAAAAGAAAAGAAAAGAAAAAAACTGGAAAAGAGGAGGTGAGACC 16049
 QY 594 CAGCGTTAGAGACAAGAGCCCTGTGAAAGAGCCAAAGCCACAGCCAGGCCAAGAAC 653
 DB 16048 TAGTGTAGAGGCCAAGAGCCCTTGGAAATAGGCCAACACACATTGCC 15998
 QY 654 AGGATTCAAGAAATGAGGCCACGCCCTGGGGCACGGTCAAAGTGGCCTTCCCTG 713
 DB 15997 -----CAAGAAATGAGGCCATGCCTTGGAGGTCAAGGTGAACCTGCCCT 15944
 QY 714 GGCTGTGTCGAGGCACAGGGTGCCCTGTGCCAGGCCCTCACCTGTCTGAATGCAAC 773
 DB 15943 GGCTGTGTCGAGGCCATGCCTTGGAGGTCAAGGTGAACCTGCCCT 15894
 QY 774 AGGGGTGTGCGGGGCCACATGAGAGGCCCTCACCCCCAACTCTCCACTTCAGG 829
 DB 15893 AGGGGTGTGCGGGGCCACACTAAAGTCCCTCACCCCCGACTCTCCAGGTGGAGG 15838

RESULT 5
 ID AAD00297
 ID AAD00297 standard; DNA; 1481 BP.
 AC AC
 XX XX
 XX 05-SEP-2000 (first entry)
 XX DE
 XX Mouse ovary-specific Npm2 gene.
 KW oocyte-specific; ovary; Npm2; nucleoplasmin; mouse; mammalian ortholog;

PR 08-NOV-2000; 2000US-0246475.
 PR 08-NOV-2000; 2000US-0246477.
 PR 08-NOV-2000; 2000US-0246478.
 PR 08-NOV-2000; 2000US-0246523.
 PR 08-NOV-2000; 2000US-0246524.
 PR 08-NOV-2000; 2000US-0246525.
 PR 08-NOV-2000; 2000US-0246526.
 PR 08-NOV-2000; 2000US-0246527.
 PR 08-NOV-2000; 2000US-0246528.
 PR 08-NOV-2000; 2000US-0246532.
 PR 08-NOV-2000; 2000US-0246609.
 PR 08-NOV-2000; 2000US-0246610.
 PR 08-NOV-2000; 2000US-0246611.
 PR 08-NOV-2000; 2000US-0246613.
 PR 17-NOV-2000; 2000US-0249207.
 PR 17-NOV-2000; 2000US-0249208.
 PR 17-NOV-2000; 2000US-0249209.
 PR 17-NOV-2000; 2000US-0249210.
 PR 17-NOV-2000; 2000US-0249211.
 PR 17-NOV-2000; 2000US-0249212.
 PR 17-NOV-2000; 2000US-0249213.
 PR 17-NOV-2000; 2000US-0249214.
 PR 17-NOV-2000; 2000US-0249215.
 PR 17-NOV-2000; 2000US-0249216.
 PR 17-NOV-2000; 2000US-0249217.
 PR 17-NOV-2000; 2000US-0249218.
 PR 17-NOV-2000; 2000US-0249244.
 PR 17-NOV-2000; 2000US-0249245.
 PR 17-NOV-2000; 2000US-0249265.
 PR 17-NOV-2000; 2000US-0249297.
 PR 17-NOV-2000; 2000US-0249299.
 PR 17-NOV-2000; 2000US-0249300.
 PR 01-DEC-2000; 2000US-0250160.
 PR 01-DEC-2000; 2000US-0250391.
 PR 05-DEC-2000; 2000US-0251030.
 PR 05-DEC-2000; 2000US-0251988.
 PR 05-DEC-2000; 2000US-0256719.
 PR 06-DEC-2000; 2000US-0251479.
 PR 08-DEC-2000; 2000US-0251856.
 PR 08-DEC-2000; 2000US-0251868.
 PR 08-DEC-2000; 2000US-0251869.
 PR 08-DEC-2000; 2000US-0251989.
 PR 11-DEC-2000; 2000US-0251990.
 PR 05-JAN-2001; 2001US-0254097.
 PR 05-JAN-2001; 2001US-0259678.
 PA (HUMA-) HUMAN GENOME SCI INC.
 PT Rosen CA, Barash SC, Ruben SM;
 XX WPI; 2001-465570/50.
 DR P-PSDB; AAM95834.
 PT Isolated nucleic acid molecule encoding a reproductive system antigen is used in preventing, treating or ameliorating a medical condition -
 PS Claim 1; SEQ ID NO 1805; 1297pp + sequence Listing; English.
 CC The present invention provides the protein and coding sequences of a number of human reproductive system related antigens. These can be used in the prevention and treatment of, reproductive system disorders, including cancer. The present sequence is a coding sequence of the invention.
 CC
 XX sequence 416 BP; 96 A; 105 C; 130 G; 80 T; 5 other;
 SQ Query Match 7.8%; Score 72.4; DB 22; Length 416;
 Best Local Similarity 50.0%; Pred. No. 8.2e-08;
 Matches 203; Conservative 1; Mismatches 196; Indels 6; Gaps 1;
 QY 51 GGAGGAAAGGCCAGT GACGCCGGCTCGGGCTGGCAGCTCAGTCAGGAGGGGAC 110

PR	14-AUG-2000; 2000US-0225266.	PR	08-NOV-2000; 2000US-0246525.
PR	14-AUG-2000; 2000US-0225268.	PR	08-NOV-2000; 2000US-0246526.
PR	14-AUG-2000; 2000US-0225270.	PR	08-NOV-2000; 2000US-0246527.
PR	14-AUG-2000; 2000US-0225447.	PR	08-NOV-2000; 2000US-0246528.
PR	14-AUG-2000; 2000US-0225757.	PR	08-NOV-2000; 2000US-0246532.
PR	14-AUG-2000; 2000US-0225758.	PR	08-NOV-2000; 2000US-0246609.
PR	14-AUG-2000; 2000US-0225759.	PR	08-NOV-2000; 2000US-0246610.
PR	14-AUG-2000; 2000US-0226279.	PR	08-NOV-2000; 2000US-0246611.
PR	14-AUG-2000; 2000US-0226681.	PR	08-NOV-2000; 2000US-0246613.
PR	22-AUG-2000; 2000US-0226868.	PR	17-NOV-2000; 2000US-0249207.
PR	22-AUG-2000; 2000US-0227182.	PR	17-NOV-2000; 2000US-0249208.
PR	18-AUG-2000; 2000US-0227009.	PR	17-NOV-2000; 2000US-0249211.
PR	23-AUG-2000; 2000US-0228924.	PR	17-NOV-2000; 2000US-0249215.
PR	30-AUG-2000; 2000US-0229287.	PR	17-NOV-2000; 2000US-0249216.
PR	01-SEP-2000; 2000US-0229343.	PR	17-NOV-2000; 2000US-0249217.
PR	01-SEP-2000; 2000US-0229344.	PR	17-NOV-2000; 2000US-0249218.
PR	01-SEP-2000; 2000US-0230437.	PR	17-NOV-2000; 2000US-0249244.
PR	05-SEP-2000; 2000US-0229509.	PR	17-NOV-2000; 2000US-0249245.
PR	05-SEP-2000; 2000US-0229513.	PR	17-NOV-2000; 2000US-0249264.
PR	06-SEP-2000; 2000US-0230437.	PR	17-NOV-2000; 2000US-0249265.
PR	06-SEP-2000; 2000US-0230438.	PR	17-NOV-2000; 2000US-0249297.
PR	08-SEP-2000; 2000US-0231242.	PR	17-NOV-2000; 2000US-0249299.
PR	08-SEP-2000; 2000US-0231243.	PR	17-NOV-2000; 2000US-0249300.
PR	06-SEP-2000; 2000US-0231244.	PR	01-DEC-2000; 2000US-0250160.
PR	06-SEP-2000; 2000US-0231413.	PR	01-DEC-2000; 2000US-0250391.
PR	08-SEP-2000; 2000US-0231414.	PR	05-DEC-2000; 2000US-0251030.
PR	08-SEP-2000; 2000US-0232080.	PR	05-DEC-2000; 2000US-0251988.
PR	08-SEP-2000; 2000US-0232081.	PR	05-DEC-2000; 2000US-0256719.
PR	08-SEP-2000; 2000US-02321968.	PR	06-DEC-2000; 2000US-0251479.
PR	12-SEP-2000; 2000US-0232397.	PR	08-DEC-2000; 2000US-0251856.
PR	12-SEP-2000; 2000US-0232398.	PR	08-DEC-2000; 2000US-0251868.
PR	12-SEP-2000; 2000US-0232399.	PR	08-DEC-2000; 2000US-0251869.
PR	14-SEP-2000; 2000US-0232400.	PR	08-DEC-2000; 2000US-0251989.
PR	14-SEP-2000; 2000US-0232401.	PR	08-DEC-2000; 2000US-0251990.
PR	14-SEP-2000; 2000US-0233063.	PR	11-DEC-2000; 2000US-0254097.
PR	14-SEP-2000; 2000US-0233064.	PR	05-JAN-2001; 2001US-0259678.
PR	14-SEP-2000; 2000US-0233065.	XX	(HUMA-) HUMAN GENOME SCI INC.
PR	14-SEP-2000; 2000US-0234223.	PA	
PR	21-SEP-2000; 2000US-0234274.	XX	
PR	25-SEP-2000; 2000US-0234997.	PI	
PR	25-SEP-2000; 2000US-0234998.	PI	
PR	26-SEP-2000; 2000US-0235484.	PI	
PR	27-SEP-2000; 2000US-0235834.	PI	
PR	27-SEP-2000; 2000US-0236327.	DR	
PR	29-SEP-2000; 2000US-0236367.	XX	Rosen CA, Barash SC, Ruben SM;
PR	29-SEP-2000; 2000US-0236368.	XX	WPI; 2001-483232/52.
PR	29-SEP-2000; 2000US-0236369.	PT	
PR	29-SEP-2000; 2000US-0236370.	PT	Nucleic acids encoding 973 human testicular antigen polypeptides, useful for preventing, diagnosing and/or treating testicular cancer -
PR	02-OCT-2000; 2000US-0236802.	XX	Claim 1; SEQ ID NO 765; 766pp; English.
PR	02-OCT-2000; 2000US-0237037.	PS	
PR	02-OCT-2000; 2000US-0237038.	XX	The present invention provides the protein and coding sequences of 973 human testicular antigens, and fragments of their genomic sequences. The sequences can be used in the treatment of cardiovascular, urinary system, reproductive system, immune, respiratory, neurological and gastrointestinal disorders, infections, and particularly cancer, especially testicular cancers. The present sequence is a cDNA of the invention.
PR	02-OCT-2000; 2000US-0237039.	CC	
PR	02-OCT-2000; 2000US-0237040.	CC	
PR	13-OCT-2000; 2000US-0239935.	CC	
PR	13-OCT-2000; 2000US-0239937.	CC	
PR	20-OCT-2000; 2000US-0240960.	CC	
PR	20-OCT-2000; 2000US-0241221.	CC	
PR	20-OCT-2000; 2000US-0241785.	CC	
PR	20-OCT-2000; 2000US-0241786.	XX	Sequence 416 BP; 96 A; 105 C; 130 G; 80 T; 5 other;
PR	20-OCT-2000; 2000US-0241808.	SQ	
PR	20-OCT-2000; 2000US-0241809.	Query	7.8%; Score 72.4; DB 23; Length 416;
PR	20-OCT-2000; 2000US-0241826.	Best Local Similarity	50.0%; Pred. No. 8.2e-08;
PR	01-NOV-2000; 2000US-0244617.	Matches	203; Conservative 1; Mismatches 196; Indels 6; Gaps 1;
PR	08-NOV-2000; 2000US-0244647.	Qy	51 GGAGGAAAGGCAGTGACGCCGTGCTGGGGCTGGAGGCTCAGTCAGGAGGGCGAC 110
PR	08-NOV-2000; 2000US-0246476.	Db	2 GCACGAGGGTGTACTGGGGGGTAAGAGGCTGTGAGCTCTCGGCCACACCCGCTC 61
PR	08-NOV-2000; 2000US-0246478.	Qy	111 TTGGACCTTCAGACCCCCAGCTGGAGGGAAAGCAGAGCTGCAGGCTGTTGCTTCATACGAT 170
PR	08-NOV-2000; 2000US-0246524.		

Db 62 CTTCACCTTAAGGTAGAGGAAGAGGATGATGCCGASACGTGNCTGGCACTAACCATGCT 121
 Qy 171 TTGCTGGGGAGAAAGCCAAGAGGAGATGCATCGCGTGGAGATCCTGCCCGAGCAA 230
 Db 122 CTGGCTCACCAGGGAGCCAAAGAGCAGTGTAAATGGTAGAAGTGTGGCCCGGA----- 177
 Qy 231 CCAGGAGGAGAGAAGATGCAGCCGTCACCTGCAGGCTCAGTCCC 290
 Db 178 --ACCATGACCATCAGGAGATCGCAGTCCACCTCCAGGCTCAGTCCC 235
 Qy 291 CATGGCTCCATGGTAGGAGTGCAGCTTCTCCCCAGTTACTTCCAGCTCCGGCTGG 350
 Db 236 CATGGCTCAGTCTGGATGACTTCCAGCTCCACCTGTAACCTTCCGCTGAAGTCCGG 295
 Qy 351 CTAGGAGCCGGTCTCCAGTGGCCAGGAACGTTATGAAGCATCAGACCTAACCTGGGA 410
 Db 296 TTCTGGCCCTGGGGNTCANTGGGCCACCAACCTGTAACCTTCCGCTGAAGTCCGG 355 ..
 Qy 411 GGAGGAGGAGAAGAAGAAGGGAGGAGGAGGAAGAGGAAGAGGA 456
 Db 356 TGAGGAGGAGGAGGAAGAGGACANTGATGAGGAAGAA 401

RESULT 8
 AAZ23891
 ID AAZ23891 standard; DNA; 49999 BP.
 XX
 AC AAZ23891;
 XX
 DT 25-JAN-2000 (first entry)
 DE Murine LOBO genomic DNA fragment 1.
 KW LOBO; long bones; bone development; bone extension; skull; osteopathic;
 KW diagnostic; pharmaceutical; gene therapy; transgenic animal; disease;
 KW spondyloepiphysal dysplasia; achondroplasia; murine; ds.
 OS Mus musculus.
 XX
 PN WO9950284-A2.
 XX
 PD 07-OCT-1999.
 XX
 PF 26-MAR-1999; 99WO-EP02055.
 XX
 PR 27-MAR-1998; 98DE-1013799.
 XX
 PA (ROSE/) ROSENTHAL A.
 XX
 PI Rosenthal A, Rump A, Hess J, Aigner T, Wirth T;
 XX
 DR WPI; 1999-601320/51.
 XX
 PT Nucleic acids encoding proteins which influence bone development,
 PT useful for treating and studying bone disorders .
 XX
 PS Example 3; Page 69-97; 391pp; German.

CC This invention describes novel nucleic acids (I; designated LOBO (long
 CC bones) encoding proteins influencing bone development in mammals. The
 CC proteins of the invention reduce and/or inactivate bone extension (i.e.
 CC development), with exception of the skull and have osteopathic activity.
 CC The nucleic acid molecules, proteins and antibodies can be used in
 CC diagnostic or pharmaceutical compounds e.g. for gene therapy. The methods
 CC and nucleic acid molecules, etc. are useful for production of transgenic
 CC animals, especially a transgenic mouse for the study of diseases
 CC associated with bone development, e.g. spondyloepiphysal dysplasia and
 CC achondroplasia. This sequence encodes the murine LOBO protein described
 CC in the method of the invention.

Sequence 49999 BP; 13210 A; 11814 C; 10825 G; 14150 T; 0 other;

Query Match 7.6%; Score 70.2; DB 20; Length 49999;
 Best Local Similarity 53.5%; Pred. No. 1.3e-06; Matches 147; Conservative 0; Mismatches 128; Indels 0; Gaps 0;
 Qy 377 AGGAACGTTATGAAGCATCAGACCTAACCTGGAGGGAGGAAGAAGGGAGG 436
 Db 7420 AAGAAGGAAGAGGAGAAGAGGAAGAAGAGGAAGAAGAAGAGGA 7479
 Qy 437 AGGAGGAAGGAGGAGATGATGAGGATGAGGATGAGATATCTCTGGAGGC 496
 Db 7480 AAGAAGAAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGA 7539
 Qy 497 AAAGCCCTGTCAAACAAAGCTGTCAGGCTGGCCAGGAACGTTATGAAGCATCAGACCTAACCTGGGA 556
 Db 7540 AAGAAGAAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGA 7599
 Qy 557 AAAAAGCTGGAAAAAGAAGAGGAATAAGAGGCCAGCGTTAGAGACAGAGGCCCTG 616
 Db 7600 AGAGGAAGAAAGAAGAAGGAGACGGAGGAAGAAGAAGGAAAGGAAAGAGA 7659
 Qy 617 TGAAAAGGCCAAAGCCACAGCCAGGCCAAGAAG 651
 Db 7660 AGAAGAAGGAGAAGGAGAAGGAGAGAG 7694

RESULT 9
 AAZ23896
 ID AAZ23896 standard; DNA; 49999 BP.
 XX
 AC AAZ23896;
 XX
 DT 25-JAN-2000 (first entry)
 DE Murine LOBO homologue genomic DNA fragment 2.
 KW LOBO; long bones; bone development; bone extension; skull; osteopathic;
 KW diagnostic; pharmaceutical; gene therapy; transgenic animal; disease;
 KW spondyloepiphysal dysplasia; achondroplasia; murine; ds.
 OS Mus musculus.
 XX
 PN WO9950284-A2.
 XX
 PD 07-OCT-1999.
 XX
 PF 26-MAR-1999; 99WO-EP02055.
 XX
 PR 27-MAR-1998; 98DE-1013799.
 XX
 PA (ROSE/) ROSENTHAL A.
 XX
 PI Rosenthal A, Rump A, Hess J, Aigner T, Wirth T;
 XX
 DR WPI; 1999-601320/51.
 XX
 PT Nucleic acids encoding proteins which influence bone development,
 PT useful for treating and studying bone disorders .
 XX
 PS Example 3; Page 161-189; 391pp; German.

CC This invention describes novel nucleic acids (I; designated LOBO (long
 CC bones) encoding proteins influencing bone development in mammals. The
 CC proteins of the invention reduce and/or inactivate bone extension (i.e.
 CC development), with exception of the skull and have osteopathic activity.
 CC The nucleic acid molecules, proteins and antibodies can be used in
 CC diagnostic or pharmaceutical compounds e.g. for gene therapy. The methods
 CC and nucleic acid molecules, etc. are useful for production of transgenic
 CC animals, especially a transgenic mouse for the study of diseases
 CC associated with bone development, e.g. spondyloepiphysal dysplasia and
 CC achondroplasia. This sequence encodes the murine LOBO protein described
 CC in the method of the invention.

Sequence 49999 BP; 13135 A; 11787 C; 10868 G; 14209 T; 0 other;

Query Match 7.6%; Score 70.2; DB 20; Length 4999;
 Best Local Similarity 53.5%; Pred. No. 1.3e-06;
 Matches 147; Conservative 0; Mismatches 128; Indels 0; Gaps 0;

Qy 377 AGGAACGTTATGAGCATCAGACCTAACCTGGAGGAGGAAGAGAAGGGGAGG 436
 Db 9405 AAGAAGAGGAAGAAGAAGAGGAGAAGAAGAAGAAGAAGAAGAAGAAG 9464
 PR 14-AUG-2000; 2000US-0225759.
 PR 18-AUG-2000; 2000US-0226279.
 PR 22-AUG-2000; 2000US-0226868.
 PR 22-AUG-2000; 2000US-0227182.
 PR 23-AUG-2000; 2000US-0227009.
 PR 30-AUG-2000; 2000US-0228924.
 PR 01-SEP-2000; 2000US-0229287.
 PR 01-SEP-2000; 2000US-0229343.
 PR 01-SEP-2000; 2000US-0229344.
 PR 01-SEP-2000; 2000US-0229345.
 PR 05-SEP-2000; 2000US-0229509.
 PR 05-SEP-2000; 2000US-0229513.
 PR 06-SEP-2000; 2000US-0230437.
 PR 06-SEP-2000; 2000US-0230438.
 PR 08-SEP-2000; 2000US-0231242.
 PR 08-SEP-2000; 2000US-0231243.
 PR 08-SEP-2000; 2000US-0231244.
 PR 08-SEP-2000; 2000US-0231413.
 PR 08-SEP-2000; 2000US-0231414.
 PR 08-SEP-2000; 2000US-0232080.
 PR 08-SEP-2000; 2000US-0232081.
 PR 12-SEP-2000; 2000US-0231968.
 PR 14-SEP-2000; 2000US-0232397.
 PR 14-SEP-2000; 2000US-0232398.
 PR 14-SEP-2000; 2000US-0232400.
 PR 14-SEP-2000; 2000US-0233063.
 PR 14-SEP-2000; 2000US-0233064.
 PR 14-SEP-2000; 2000US-0233065.
 PR 21-SEP-2000; 2000US-0234274.
 PR 21-SEP-2000; 2000US-0234274.
 PR 25-SEP-2000; 2000US-0234997.
 PR 25-SEP-2000; 2000US-0234998.
 PR 26-SEP-2000; 2000US-0235484.
 PR 27-SEP-2000; 2000US-0235834.
 PR 27-SEP-2000; 2000US-0235836.
 PR 29-SEP-2000; 2000US-0236327.
 PR 29-SEP-2000; 2000US-0236367.
 PR 29-SEP-2000; 2000US-0236368.
 PR 29-SEP-2000; 2000US-0236369.
 PR 29-SEP-2000; 2000US-0236370.
 PR 02-OCT-2000; 2000US-0236802.
 PR 02-OCT-2000; 2000US-0237037.
 PR 02-OCT-2000; 2000US-0237038.
 PR 02-OCT-2000; 2000US-0237039.
 PR 02-OCT-2000; 2000US-0237040.
 PR 13-OCT-2000; 2000US-0239935.
 PR 13-OCT-2000; 2000US-0239937.
 PR 20-OCT-2000; 2000US-0240960.
 PR 20-OCT-2000; 2000US-0241221.
 PR 20-OCT-2000; 2000US-0241785.
 PR 20-OCT-2000; 2000US-0241786.
 PR 01-NOV-2000; 2000US-0244617.
 PR 01-NOV-2000; 2000US-0244647.
 PR 08-NOV-2000; 2000US-02446474.
 PR 08-NOV-2000; 2000US-02446475.
 PR 08-NOV-2000; 2000US-0246476.
 PR 08-NOV-2000; 2000US-0246477.
 PR 08-NOV-2000; 2000US-0246478.
 PR 08-NOV-2000; 2000US-0246523.
 PR 08-NOV-2000; 2000US-0246524.
 PR 08-NOV-2000; 2000US-0246525.
 PR 08-NOV-2000; 2000US-0246526.
 PR 08-NOV-2000; 2000US-0246527.
 PR 08-NOV-2000; 2000US-0246528.
 PR 08-NOV-2000; 2000US-0246532.

RESULT 10

AAK67071 ID AAK67071 standard; DNA; 33923 BP.
 XX AC AAK67071;
 XX DT 06-NOV-2001 (first entry)
 DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:21883.
 DE Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
 KW cytostatic; gene therapy; vaccine; metastasis; ds.
 KW Homo sapiens.
 OS XX
 PN WO200157182-A2.
 XX PD 09-AUG-2001.
 XX PF 17-JAN-2001; 2001WO-US01354.
 XX PR 31-JAN-2000; 2000US-0179065.
 PR 04-FEB-2000; 2000US-0180628.
 PR 24-FEB-2000; 2000US-0184664.
 PR 02-MAR-2000; 2000US-0186350.
 PR 16-MAR-2000; 2000US-0189874.
 PR 17-MAR-2000; 2000US-0190076.
 PR 18-APR-2000; 2000US-0198123.
 PR 19-MAY-2000; 2000US-0205515.
 PR 07-JUN-2000; 2000US-0209467.
 PR 28-JUN-2000; 2000US-0214886.
 PR 11-JUL-2000; 2000US-0215135.
 PR 07-JUL-2000; 2000US-0216647.
 PR 07-JUL-2000; 2000US-0216880.
 PR 11-JUL-2000; 2000US-0217487.
 PR 14-AUG-2000; 2000US-0224519.
 PR 14-AUG-2000; 2000US-0225213.
 PR 14-AUG-2000; 2000US-0225214.
 PR 14-AUG-2000; 2000US-0225266.
 PR 14-AUG-2000; 2000US-0225267.
 PR 14-AUG-2000; 2000US-0225268.
 PR 14-AUG-2000; 2000US-0225270.
 PR 14-AUG-2000; 2000US-0225447.

PR	08-NOV-2000;	2000US-0246609.	OY	377 AGGAACGTTATGAGCATCAGACCTAACCTGGGAGGAGAAGAAGGGAGG 436
PR	08-NOV-2000;	2000US-0246611.	Db	22820 AGGAAGGAAAGGGAGGACGAGGAGCAAGGGAGG 22879
PR	17-NOV-2000;	2000US-0249207.	OY	437 AGGAGGAAGGAGGAGGAGATGATGAGGATGCAGATATCTCTGGAGGAGG 496
PR	17-NOV-2000;	2000US-0249209.	Db	22880 AGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 22939
PR	17-NOV-2000;	2000US-0249210.	OY	497 AAAGCCCTGTCAAACAAGTCAAAGGCTGGTCCCCAGAAGCAGGGAGCGTGGCTAAGA 556
PR	17-NOV-2000;	2000US-0249211.	Db	22940 AGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 22999
PR	17-NOV-2000;	2000US-0249212.	OY	557 AAAAAGCTGGAAAAAGAGAAGAGAAA 586
PR	17-NOV-2000;	2000US-0249213.	Db	23000 AGGAGAAGGGAGGAAGGGAGAAGGAGA 23029
PR	17-NOV-2000;	2000US-0249217.		
PR	17-NOV-2000;	2000US-0249218.		
PR	17-NOV-2000;	2000US-0249244.		
PR	17-NOV-2000;	2000US-0249245.		
PR	17-NOV-2000;	2000US-0249264.		
PR	17-NOV-2000;	2000US-0249265.		
PR	17-NOV-2000;	2000US-0249297.		
PR	17-NOV-2000;	2000US-0249299.		
PR	17-NOV-2000;	2000US-0249300.		
PR	01-DEC-2000;	2000US-0250160.		
PR	01-DEC-2000;	2000US-0250391.		
PR	05-DEC-2000;	2000US-0251030.		
PR	05-DEC-2000;	2000US-0251988.		
PR	05-DEC-2000;	2000US-0256719.		
PR	06-DEC-2000;	2000US-0251479.		
PR	08-DEC-2000;	2000US-0251856.		
PR	08-DEC-2000;	2000US-0251868.		
PR	08-DEC-2000;	2000US-0251869.		
PR	08-DEC-2000;	2000US-0251989.		
PR	08-DEC-2000;	2000US-0251990.		
PR	11-DEC-2000;	2000US-0254097.		
PR	05-JAN-2001;	2001US-0259678.		
PA	(HUMA-) HUMAN GENOME SCI INC.			
XX		RESULT 11		
PI	Rosen CA,	AAS90676		
XX	Barash SC,	AAS90676 standard; CDNA; 341 BP.		
PS	Ruben SM;			
XX		ID AAS90676;		
DR		XX AAS90676;		
XX		AC AAS90676;		
XX		DT 13-FEB-2002 (first entry)		
XX		DE DNA encoding novel human diagnostic protein #26480.		
XX		KW Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss.		
OS		KW Homo sapiens.		
XX		OS Homo sapiens.		
PN		XX WO200175067-A2.		
XX		PN XX		
PD		PD 11-OCT-2001.		
XX		XX PF 30-MAR-2001; 2001WO-US08631.		
XX		XX PR 31-MAR-2000; 2000US-0540217.		
PS		XX PR 23-AUG-2000; 2000US-0649167.		
XX		XX PA (HYSE-) HYSEQ INC.		
PT		XX PT Drmanac RT, Liu C, Tang YT;		
PPT		XX DR WPT; 2001-639362/73.		
PT		XX PA P-PSDB; ABG26489.		
XX		XX PS Claim 1; SEQ ID No 26480; 103pp; English.		
CC		CC The invention relates to isolated polynucleotide (I) and		
CC		CC polypeptide (II) sequences. (I) is useful as hybridisation probes,		
CC		CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome		
CC		CC and gene mapping, and in recombinant production of (II). The		
CC		CC polynucleotides are also used in diagnostics as expressed sequence tags		
CC		CC for identifying expressed genes. (I) is useful in gene therapy techniques		
CC		CC to restore normal activity of (II) or to treat disease states involving		
CC		CC (II). (II) is useful for generating antibodies against it, detecting or		
CC		CC quantitating a polypeptide in tissue, as molecular weight markers and as		
CC		CC a food supplement. (II) and its binding partners are useful in medical		
CC		CC imaging of sites expressing (II). (I) and (II) are useful for treating		
CC		CC disorders involving aberrant protein expression or biological activity.		
CC		CC The polypeptide and polynucleotide sequences have applications in		
CC		CC diagnostics, forensics, gene mapping, identification of mutations		
CC		CC responsible for genetic disorders or other traits to assess biodiversity		
CC		CC and to produce other types of data and products dependent on DNA and		
CC		CC amino acid sequences. AAS64197-AAS94564 represent novel human		

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published_pct_sequences](ftp://wipo.int/pub/published_pct_sequences).

RESULT 12
ABQ54697

XX
AC
XX ABQ54697;

XX
DT
YY 22-AUG-2002 (first entry)

DE HTLEP21 cDNA, SEQ ID NO:57.
XX Human ovarian antigen: Ovary: Ovarian: breast: ga-
mmar: ovarian antigen: Ovary: Ovarian: breast: ga-

KW ovarian cancer; breast cancer; tumour; reproductive system disorder; infertility; pregnancy disorder; anovulation; polycystic ovary syndrome

KW gastrointestinal disorder; urinary system disorder; drug screening, gene therapy; chromosome mapping; forensic analysis; antibody preparation; cytostatic; immunomodulatory; neuroprotective.

KW
xx
OS
Homo sapiens.

WO200200677-A1.
XX
PN
XX

PD
XX
RR
03 - JAN - 2002.
07 - ITIN-3001 : 2001W0-118569

XX
PR
07-JUN-2000; 20000US-209467P

XX
PA
AA
HUMAN GENOME SCI INC.
(HUMA -)

PI BRISE CE, ROSEN
XX
DR WPI; 2002-147878

XX
PT
PT Isolated nucleic acid molecules encoding novel ovarian polypeptides useful in the prevention, treatment and diagnosis of cancer (e.g.

CC
CC
CC
CC
CC
invention.
Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published_pct_sequences](ftp://wipo.int/pub/published_pct_sequences).

Bb 2 GCACGGAGGGGTTGGAAGCAGAGCTGCAGGCTGTGCTTCATACGAT 170

Db 62 CTTCACCTTAAGGTAGAGGAAGAGGATGATGCG - GMMRCGTCGGCACTAACCATGCT 120

QY 231 CCAGGGACAAGAAGATGCCGCGTCACTCCAGGCCTCAGTCCTCCC 290

Db 175 GAACCATGACCATCAGGAGATCGCAGTCCTGGCCAACTCAAAGCTGTCTGCCAAC 234

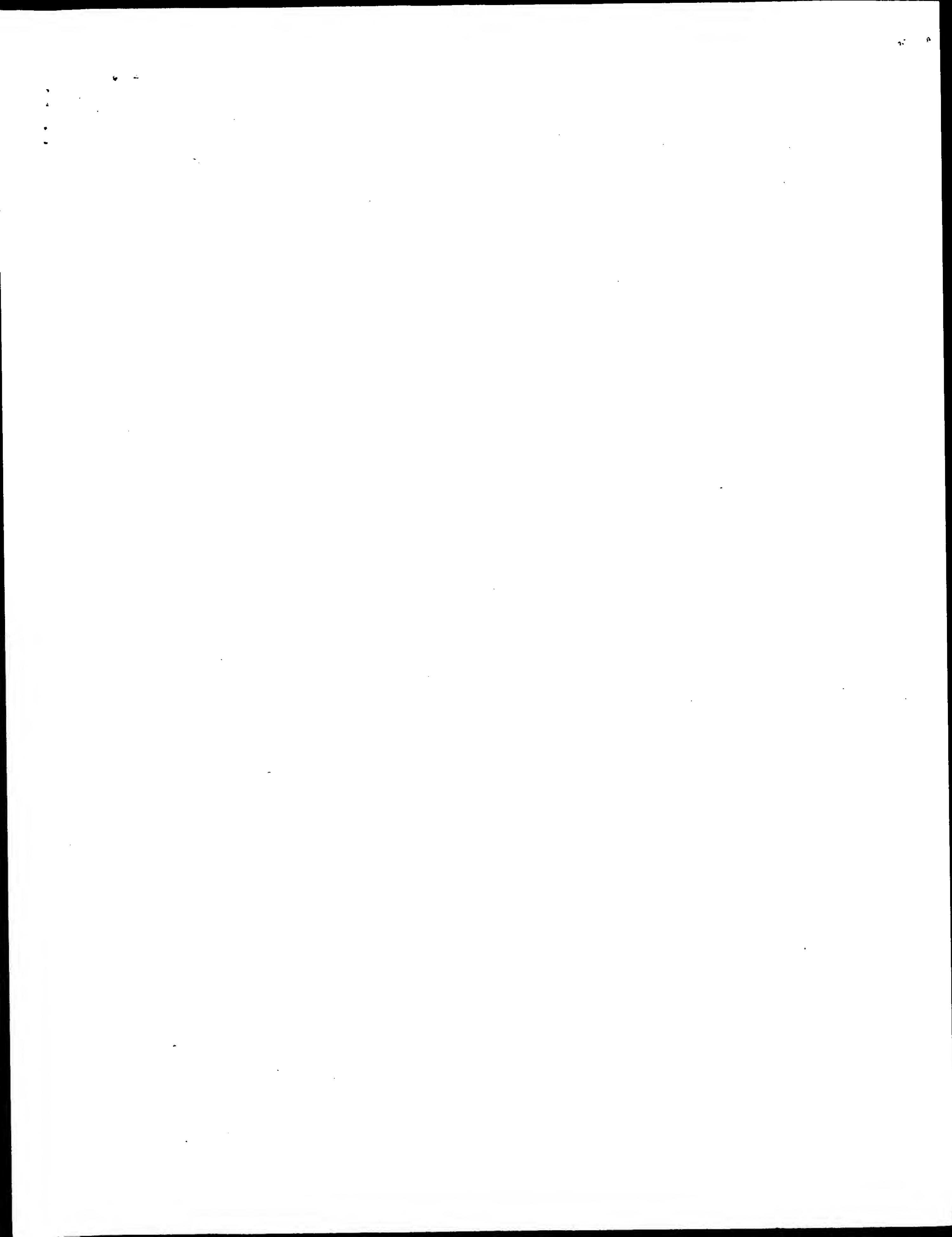
Db 295 YTCTGGCCMTGCGGGATCACTGGGGCACCAGATTTACGGATGACCAAGAIGIIC 334
Qv 411 CGAGGAGGAGGAAGAAGAAGGGGAGGGAGGAAGAGGAAGAGGAAGAAGATGA 461

Db 355 TGAGGAGGAGCCGAGGAAGAGGACAGTGATGAGGAAGAAGTTGA 405

RESULT 13
AAS68926
ID AAS68926 standard: cDNA: 291 BP.

AC	AAS68926;	QY	542 CGAGCGTGGCTAAGAAAAAGCTGGAAAAGAAGAGGAAATAAGAGCCAGCGTTA 601
XX		DB	188 AAGAAGAAGAAGAAGAGGAAGAGAAGAAGAAGAAGAAGAAGAAGAAGAAGC 601
DT		DE	DNA encoding novel human diagnostic protein #4730.
XX		XX	Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss.
KW		OS	Homo sapiens.
XX		XX	
PN	WO200175067-A2.	PN	
XX		XX	
PD	11-OCT-2001.	PD	
XX		XX	
PF	30-MAR-2001; 2001WO-US08631.	PF	
XX		XX	
PR	31-MAR-2000; 2000US-0540217.	PR	
XX		XX	
PR	23-AUG-2000; 2000US-0649167.	PR	
XX		XX	
PA	(HYSE-) HYSEQ INC.	PA	
XX		XX	
PI	Drmanac RT, Liu C, Tang YT;	PI	
XX		XX	
DR	WPI; 2001-639362/73.	DR	
XX		XX	
PT	New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity.	PT	
XX		XX	
PS	Claim 1; SEQ ID NO 4730; 103pp; English.	PS	
XX		XX	
CC	The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic coding sequences of the invention.	CC	
CC	Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.	CC	
CC	Sequence 291 BP; 129 A; 22 C; 112 G; 28 T; 0 other;	CC	
CC	Query Match 7.2%; Score 66.4; DB 23; Length 291; Best Local Similarity 54.0%; Pred. No. 2e-06; Matches 136; Conservative 0; Mismatches 116; Indels 0; Gaps 0;	CC	
CC	8 TTGCCCCATATTGGCCAGGCTAGTCGACTCCTGACCTCAGGGAGGGAGGGAGG 67	CC	
CC	362 TGGTCCTCAGTGGCCAGGAACGTTATGAAGCATCAGACCTAACCTGGAGGGAGG 421	CC	
CC	422 AAGAAGAAGGGAGGGAGGAAGAGGAAGAGGAAGAGGAGGAAGAGGAGGAAGG 67	CC	
CC	68 AGGGAGGGAGGGAGGAAGAGGAAGAGGAGGAAGAGGAGGAAGAGGAGGAAGG 127	CC	
CC	482 TATCTCTGGAGGACCAAGCCCTGTCAAACAAGTCAAAGGCTGGGCCAGAAC 541	CC	
CC	128 AAGAGGAGGGAGGGAGGAAGAGGAAGAGGAAGAGGAGGAAGAGGAGGAAGG 187	CC	
CC	Sequence 1680 BP; 574 A; 286 C; 485 G; 335 T; 0 other;	CC	
XX		XX	
QY	542 CGAGCGTGGCTAAGAAAAAGCTGGAAAAGAAGAGGAAATAAGAGCCAGCGTTA 601	QY	
DB	188 AAGAAGAAGAAGAAGAGGAAGAGAAGAAGAAGAAGAAGAAGAAGC 601	DB	
QY	602 GAGACAAAGGCC 613	QY	
DB	248 GAGATCAAATCC 259	DB	
XX		XX	
PN	RESULT 14	PN	
XX	AAS68538	XX	
ID	AAS68538 standard; cDNA; 1680 BP.	ID	
XX		XX	
AC	AAS68538;	AC	
XX		XX	
DT	13-FEB-2002 (first entry)	DT	
XX		XX	
DE	DNA encoding novel human diagnostic protein #4342.	DE	
XX		XX	
PR	Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss.	PR	
XX		XX	
KW	Homo sapiens.	KW	
OS		OS	
XX		XX	
PN	W0200175067-A2.	PN	
XX		XX	
PD	11-OCT-2001.	PD	
XX		XX	
PF	30-MAR-2001; 2001WO-US08631.	PF	
XX		XX	
PR	31-MAR-2000; 2000US-0540217.	PR	
XX		XX	
PR	23-AUG-2000; 2000US-0649167.	PR	
XX		XX	
PA	(HYSE-) HYSEQ INC.	PA	
XX		XX	
DR	WPI; 2001-639362/73.	DR	
XX		XX	
PI	Drmanac RT, Liu C, Tang YT;	PI	
XX		XX	
DR	P-PSDB; ABG04351.	DR	
XX		XX	
PT	New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity.	PT	
XX		XX	
PS	Claim 1; SEQ ID NO 4342; 103pp; English.	PS	
XX		XX	
CC	The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic coding sequences of the invention.	CC	
CC	Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.	CC	
SQ	Sequence 1680 BP; 574 A; 286 C; 485 G; 335 T; 0 other;	SQ	

PR 17 - NOV - 2000; 2000US-0249208.
 PR 17 - NOV - 2000; 2000US-0249209.
 PR 17 - NOV - 2000; 2000US-0249210.
 PR 17 - NOV - 2000; 2000US-0249211.
 PR 17 - NOV - 2000; 2000US-0249212.
 PR 17 - NOV - 2000; 2000US-0249213.
 PR 17 - NOV - 2000; 2000US-0249214.
 PR 17 - NOV - 2000; 2000US-0249215.
 PR 17 - NOV - 2000; 2000US-0249216.
 PR 17 - NOV - 2000; 2000US-0249217.
 PR 17 - NOV - 2000; 2000US-0249218.
 PR 17 - NOV - 2000; 2000US-0249244.
 PR 17 - NOV - 2000; 2000US-0249245.
 PR 17 - NOV - 2000; 2000US-0249264.
 PR 17 - NOV - 2000; 2000US-0249265.
 PR 17 - NOV - 2000; 2000US-0249297.
 PR 17 - NOV - 2000; 2000US-0249299.
 PR 17 - NOV - 2000; 2000US-0249300.
 PR 01 - DEC - 2000; 2000US-0250160.
 PR 01 - DEC - 2000; 2000US-0250391.
 PR 05 - DEC - 2000; 2000US-0251030.
 PR 05 - DEC - 2000; 2000US-02511988.
 PR 06 - DEC - 2000; 2000US-0256719.
 PR 08 - DEC - 2000; 2000US-0251479.
 PR 08 - DEC - 2000; 2000US-0251856.
 PR 08 - DEC - 2000; 2000US-0251868.
 PR 08 - DEC - 2000; 2000US-0251869.
 PR 08 - DEC - 2000; 2000US-0251989.
 PR 08 - DEC - 2000; 2000US-0251990.
 PR 11 - DEC - 2000; 2000US-0254097.
 PR 05 - JAN - 2001; 2001US-0259678.
 XX (HUMA-) HUMAN GENOME SCI INC.
 PT Rosen CA, Barash SC, Ruben SM;
 XX DR WPI; 2001-483426/52.
 XX PT Nucleic acids encoding human immune/haematopoietic antigen polypeptides, useful for preventing, diagnosing and/or treating cancers and metastasis -
 XX PS Disclosure; SEQ ID NO 37484; 3071pp + Sequence Listing; English.
 CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I) amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic activity, and can be used in gene therapy and vaccine production. (I) proteins and polynucleotides may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate (I) expression. For example, they may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of (I) by expressing inactive proteins or to supplement the patients own production of (I). Additionally, (I) polynucleotides may be used to produce the secreted (I), by inserting the nucleic acids into a host cell and culturing the cell to express the protein. (I) proteins and polynucleotides may be used to prevent, diagnose and treat immune/haematopoietic-related diseases, especially cancers and cancer metastases of haematopoietic-derived cells. AAK64703 to AAK87694 represent human immune/haematopoietic antigen genomic sequences from the present invention. AAK54942 to AAK54950 and AAM82169 represent sequences used in the exemplification of the present invention.
 XX SO Sequence 8165 BP; 1595 A; 2353 C; 2025 G; 2192 T; 0 other;
 Query Match 7.1%; Score 65.2; DB 22; Length 8165;
 Best Local Similarity 50.5%; Pred. No. 1.2e-05;
 Matches 187; Conservative 0; Mismatches 178; Indels 5; Gaps 1;
 Qy 307 CGAGTGCAGCTTCTCCCCAGTTACTTCCAGCTCCGGCTGGCTCAGACCCGTGTC 366
 Db 3706 GCAGTGAACCGGAGATCACACCACTGCTCTCCAGCCCAGGTAACAGGCCAGACTCCATCT 3647
 Qy 367 CTCAGTGGCCAGGAACGTTATGAAGCATCAGACCTAACCTGGGAGGAGGAGAAAGAA 426



GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: January 24, 2003, 03:53:00 ; Search time 2237 Seconds

(without alignments)
6689.598 Million cell updates/sec

Title: US-09-844-864-16

Perfect score: 924

Sequence: 1 cagcccgcttctgtccccgg.....tttgcggccgaagttatg 924

Scoring table: IDENTITY_NUC

Gapop 10.0 , Capext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters:

32308132

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

EST:*

1: em_estba:*

2: em_esthun:*

3: em_estin:*

4: em_estmu:*

5: em_estov:*

6: em_estpl:*

7: em_estro:*

8: em_htc:*

9: gb_est1:*

10: gb_est2:*

11: gb_htc:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estfun:*

16: em_estom:*

17: gb_gss:*

18: em_gss_hum:*

19: em_gss_inv:*

20: em_gss_pln:*

21: em_gss_vrt:*

22: em_gss_fun:*

23: em_gss_mam:*

24: em_gss_mus:*

25: em_gss_other:*

26: em_gss_pro:*

27: em_gss_rod:*

ALIGNMENTS

7	410.6	44.4	915	14	BQ684634	
8	405.8	43.9	872	14	BQ878312	
C	9	405	43.8	405	12	BF594409
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C	11	389.6	42.2	14	BQ684424	
12	378.4	41.0	966	14	BQ682257	
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19	30.3	491	13	BI913169		
20	25.3	636	10	BB559308		
21	178.4	19.3	580	13	BI439005	
22	158.6	17.2	280	10	BB284820	
23	126.6	13.7	207	14	D81565	
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25	103.2	11.2	623	9	AL682691	
26	103.2	11.2	658	9	AL782493	
27	102	11.0	566	9	AL645040	
C	28	96.8	10.5	593	10	BE026525
29	96.4	10.4	574	13	BJ094747	
30	96.4	10.4	600	14	BJ387680	
C	31	96.4	10.4	645	13	BJ098416
C	32	96	10.4	590	13	BI941416
C	33	95.8	10.4	555	12	BG021389
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C	35	94.2	10.2	522	12	BB886286
C	36	94.2	10.2	551	12	BG016384
C	37	93.8	10.2	594	12	BF427228
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C	39	91.4	9.9	531	10	BE192089
C	40	90.2	9.8	460	12	BG515848
C	41	89	9.6	593	10	BE026442
C	42	87.2	9.4	554	10	BE680412
C	43	84.8	9.2	541	9	AL595075
C	44	83.6	9.0	549	14	BO387679
81	8.8	537	9	AL682539		

SUMMARIES

Result No.	Score	Query Match Length DB ID	Description
C 1	517	56.0 517 9	AI391464 tf96905.x
C 2	455	49.2 455 9	A1016313 ot78a10.s
C 3	433	46.9 433 13	BM055230 ie92b10.y
C 4	432.2	46.8 451 13	BM054976 ie92b10.x
5	418.6	45.3 1324 14	BM809804 AGENCOURT
6	414.4	44.8 854 14	BQ878692 AGENCOURT

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

BM055230
LOCUS BM055230 433 bp mRNA linear EST 12-MAR-2002
DEFINITION 1e92b10.y1 Melton Normalized Human Islet 4 N4-HIS 1 Homo sapiens
ACCESSION CDNA clone IMAGE:5674315 5', mRNA sequence.
VERSION BM055230.1 GI:16812965
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Cetartiodactyla; Hominidae; Homo.
1 (bases 1 to 433)
REFERENCE
AUTHORS Melton,D., Brown,J., Kenty,G., Permutt,A., Lee,C., Kaestner,K., Lemishka,I., Scearce,M., Brestelli,J., Gradwohl,G., Clifton,S., Hillier,L., Marra,M., Pape,D., Wylie,T., Martin,J., Blustein,A., Schmitt,A., Theising,B., Ritter,E., Ronko,I., Bennett,J., Cardenas,M., Gibbons,M., McCann,R., Cole,R., Tsagareishvili,R., Williams,T., Jackson,Y. and Bowers,Y.
TITLE Endocrine Pancreas Consortium
JOURNAL Unpublished (2000)
COMMENT Other_ESTs: 1e92b10.x1
Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue
Endocrine Pancreas Consortium
Harvard University, Howard Hughes Medical Institute
Dept. of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge,
MA 02138
Tel: 617-495-1812
Fax: 617-495-8557
Email: dmelton@biohp.harvard.edu
Library was constructed by Dr. Douglas Melton DNA sequencing by:
Washington University Genome Sequencing Center For information on
obtaining a clone please contact: Julian Brown
(brown@fas.harvard.edu) This sequence now available from the IMAGE
consortium, for clone orders contact: info@image.lnl.gov.
Location/Qualifiers

FEATURES
source

- . .433
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5674315"
/clone_lib="Melton Normalized Human Islet 4 N4-HIS 1"
/sex="Both"
/tissue_type="Islets of Langerhans"
/dev_stage="Adult"
/lab_host="DH10B"
/note="Organ: Pancreas; Vector: pSPORT1; Site_1: Not 1;
Site_2: Sal 1; Starting library constructed using SuperScript Plasmid Library kit (Life Technologies). CDNA made by oligo-dT priming. Size-selected by column fractionation; average insert size 1.08 kb. Library was amplified once on solid support and Plasmid DNA from library was prepared. The library DNA was normalized by method #4 from Bonaldo, Lennon, and Soares 1996 Genome Research 6:791-806; 0.5 microgram single-stranded library plasmid DNA was mixed with 5 micrograms PCR product representing library inserts and hybridized to an Eclot of 20. Single-stranded (unhybridized) plasmids were isolated by hydroxyapatite chromatography and used to make this library."

BASE COUNT
ORIGIN

137 a 98 c 143 g 55 t

Query Match
Best Local Similarity 46.9%; Score 433; DB 13; Length 433;
Matches 433; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

REFERENCE
AUTHORS Melton,D., Brown,J., Kenty,G., Permutt,A., Lee,C., Kaestner,K., Lemishka,I., Scearce,M., Brestelli,J., Gradwohl,G., Clifton,S., Hillier,L., Marra,M., Pape,D., Wylie,T., Martin,J., Blustein,A., Schmitt,A., Theising,B., Ritter,E., Ronko,I., Bennett,J., Cardenas,M., Gibbons,M., McCann,R., Cole,R., Tsagareishvili,R., Williams,T., Jackson,Y. and Bowers,Y.
TITLE Endocrine Pancreas Consortium
JOURNAL Unpublished (2000)
COMMENT Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue
Endocrine Pancreas Consortium
Harvard University, Howard Hughes Medical Institute
Dept. of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge,
MA 02138
Tel: 617-495-1812
Fax: 617-495-8557
Email: dmelton@biohp.harvard.edu
Library was constructed by Dr. Douglas Melton DNA sequencing by:
Washington University Genome Sequencing Center For information on
obtaining a clone Please contact: Julian Brown
(brown@fas.harvard.edu) This sequence now available from the IMAGE
consortium, for clone orders contact: info@image.lnl.gov.
Location/Qualifiers

- . .451
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5674315"
/clone_lib="Melton Normalized Human Islet 4 N4-HIS 1"
/sex="Both"
/tissue_type="Islets of Langerhans"
/dev_stage="Adult"
/lab_host="DH10B"
/note="Organ: Pancreas; Vector: pSPORT1; Site_1: Not 1;
Site_2: Sal 1; Starting library constructed using SuperScript Plasmid Library kit (Life Technologies). CDNA made by oligo-dT priming. Size-selected by column

QY 511 CAAGTCAAAAGGCTGGTGCCCCAGAAGCAGGCCAGCGCTGGCTAAAGAAAAAGCTGGAA 570
Db 121 CAAGTCAAAAGGCTGGTGCCCCAGAAGCAGGCCAGCGCTGGCTAAAGAAAAAGCTGGAA 180
QY 571 AAAGAAGAAGAGGAATAAGAGCCAGCGTTAGAGACAAGAGCCCTGTGAAAAGGCAAA 630
Db 181 AAAGAAGAAGAGGAATAAGAGCCAGCGTTAGAGACAAGAGCCCTGTGAAAAGGCCAA 240
QY 631 GCCACAGCCAGAGCCAAGAACGAGATTCAAAGAAATGAGGAGGCCACGCCCTGGGGCA 690
Db 241 GCCACAGCCAGAGCCAAGAACGAGATTCAAAGAAATGAGGAGGCCACGCCCTGGGGCA 300
QY 691 CGGTGCAAAAGTGGCCTCCCTGGCTGTGCTGCAGGCACAGGGTGCCTGAGGCC 750
Db 301 CGGTGCAAAAGTGGCCTCCCTGGCTGTGCTGCAGGCACAGGGTGCCTGAGGCC 360
QY 751 CTCCACCTGTCTGAATGCCAACAGGGGTGCGGGGCAACATGAGGAGGCCCTCACCC 810
Db 361 CTCCACCTGTCTGAATGCCAACAGGGGTGCGGGGCAACATGAGGAGGCCCTCACCC 420
QY 811 CCAACTCTCCACT 823
Db 421 CCAACTCTCCACT 433

RESULT 4
BM054976/c
LOCUS BM054976 451 bp mRNA linear EST 12-MAR-2002
DEFINITION 1e92b10.x1 Melton Normalized Human Islet 4 N4-HIS 1 Homo sapiens
ACCESSION CDNA clone IMAGE:5674315 3', mRNA sequence.
VERSION BM054976.1 GI:16812511
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Cetartiodactyla; Hominidae; Homo.
1 (bases 1 to 451)
REFERENCE
AUTHORS Melton,D., Brown,J., Kenty,G., Permutt,A., Lee,C., Kaestner,K., Lemishka,I., Scearce,M., Brestelli,J., Gradwohl,G., Clifton,S., Hillier,L., Marra,M., Pape,D., Wylie,T., Martin,J., Blustein,A., Schmitt,A., Theising,B., Ritter,E., Ronko,I., Bennett,J., Cardenas,M., Gibbons,M., McCann,R., Cole,R., Tsagareishvili,R., Williams,T., Jackson,Y. and Bowers,Y.
TITLE Endocrine Pancreas Consortium
JOURNAL Unpublished (2000)
COMMENT Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue
Endocrine Pancreas Consortium
Harvard University, Howard Hughes Medical Institute
Dept. of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge,
MA 02138
Tel: 617-495-1812
Fax: 617-495-8557
Email: dmelton@biohp.harvard.edu
Library was constructed by Dr. Douglas Melton DNA sequencing by:
Washington University Genome Sequencing Center For information on
obtaining a clone Please contact: Julian Brown
(brown@fas.harvard.edu) This sequence now available from the IMAGE
consortium, for clone orders contact: info@image.lnl.gov.
Location/Qualifiers

- . .451
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5674315"
/clone_lib="Melton Normalized Human Islet 4 N4-HIS 1"
/sex="Both"
/tissue_type="Islets of Langerhans"
/dev_stage="Adult"
/lab_host="DH10B"
/note="Organ: Pancreas; Vector: pSPORT1; Site_1: Not 1;
Site_2: Sal 1; Starting library constructed using SuperScript Plasmid Library kit (Life Technologies). CDNA made by oligo-dT priming. Size-selected by column

fractionation; average insert size 1.08 kb. Library was amplified once on solid support and plasmid DNA from library was prepared. The library DNA was normalized by method #4 from Bonaldo, Lennon, and Soares 1996 Genome Research 6:791-806; 0.5 microgram single-stranded library plasmid DNA was mixed with 5 micrograms PCR product representing library inserts and hybridized to an EcoI of 20. Single-stranded (unhybridized) plasmids were isolated by hydroxyapatite chromatography and used to make this library."

BASE COUNT 61 a 136 c 110 g 144 t
ORIGIN

Query Match 46.8%; Score 432.2; DB 13; Length 451;
Best Local Similarity 98.9%; Pred. No. 8.9e-63;
Matches 446; Conservative 0; Mismatches 3; Indels 2; Gaps 1;

QY 445 GAGGAAGAGGAGATGATGAGGATGCAGATATCTCTGGAGGACAAGCCCT 504
Db 451 GAGGAAGAGGAGATGATGAGGATGCAGATATCTCTGGAGGACAAGCCCT 392

QY 505 GTCAACAACTCAAAGGCTGGGCCAGAACAGCAGCGAGCGAGGCTGCTAAGAAAAAAG 564
Db 391 GTCAACAACTCAAAGGCTGGGCCAGAACAGCAGCGAGGCTGCTAAGAAAAAAG 332

QY 565 CTGAAAGAGAGAGAGAGAAATAAGAGCCAGCGTAGAGACAAGAGCCCTGTGAAAG 624
Db 331 CTGAAAGAGAGAGAGAAATAAGAGCCAGCGTAGAGACAAGAGCCCTGTGAAAG 272

QY 625 GCCAAAGCCACAGCCAGGCCAAGAACAGCCAGGATCAAGAAATGAGGAGCCACGCCCTT 682
Db 271 GCCAAAGCCACAGCCAGGCCAAGAACAGCCAGGATTCAGAAATGAGGAGCCACGCCATAA 212

QY 683 GGGGGCACGGTCAAAAGGGCTTCCTGGGCTGTGCTCAGGCACAGGTGCCCCCTG 742
Db 211 GAGGGCACGGTCAAAAGGGCTTCCTGGGCTGTGCTCAGGCACAGGTGCCCCCTG 152

QY 743 TCCAGCCCTCACCTGTCTGAATGCCAACAGGGTGTCCGGGCCAACATGAGGCC 802
Db 151 TCCAGCCCTCACCTGTCTGAATGCCAACAGGGTGTCCGGGCCAACATGAGGCC 92

QY 803 CCTCACCCCCAACACTCTCCACTTCAGGAGCCCCACTCGGGTCA 862
Db 91 CCTCACCCCCAACCTCTCCACTTCAGGAGGCCAACCTCGGGTCA 32

QY 863 CAATAAAGTTGCTGGTCAGGAAAAAAA 893
Db 31 CAATAAAGTTGCTGGTCAGGAAAAAAA 1

BASE COUNT 383 a 90 c 706 g 60 t 85 others
ORIGIN

Query Match 45.3%; Score 418.6; DB 14; Length 1324;
Best Local Similarity 78.4%; Pred. No. 1.1e-60;
Matches 494; Conservative 0; Mismatches 134; Indels 2; Gaps 2;

QY 106 CGGACTTGGACCTTCAGACCCCAGCTGGGGGAAGCAGAGCTGAGGCTGTGCTTCAT 165
Db 1 CGGACTTGGACCTTCAGACCCCAGCTGGGGGAAGCAGAGCTGAGGCTGTGCTTCAT 60

QY 166 ACGATTGCTGGGGAGAAAGCCAAGAGGAGATGATCGCGTGGAGATCCGGCCCCCA 225
Db 61 ACGATTGCTGGGGAGAAAGCCAAGAGGAGATGATCGCGTGGAGATCCGGCCCCCA 120

QY 226 GCAAACAGGAGGACAAAGAGATGCAGCCGGTCACTCCAGGCTTCAGTC 285
Db 121 GCAAACAGGAGGACAAAGAGATGCAGCCGGTCACTCCAGGCTTCAGTC 180

QY 286 CTCCCCATGGTCTCATGGTAGGAGTGCAGCTTCTCCCACTTCAGCTCCCG 345
Db 181 CTCCCCATGGTCTCCATGGTAGGAGTGCAGCTTCTCCCACTTCAGCTCCCG 240

QY 346 GCTGGCTCAGGACCCGTGTTCTCAGTGGCCAGGAACGTTATGAAGCATCAGACCTAAC 405
Db 241 GCTGGCTCAGGACCCGTGTTCTCAGTGGCCAGGAACGTTATGAAGCATCAGACCTAAC 300

QY 406 TGGAGGAGGAGGAAGGAAGGGGGAGGAGGAGGAAGAGGAAGGAGATGAG 465
Db 301 TGGAGGAGGAGGAAGGAAGAGGGGGAGGAGGAAGAGGAANANGAANANGAAN 360

RESULT 5
BM809804
LOCUS BM809804 1324 bp mRNA linear EST 05-MAR-2002
DEFINITION AGENCOURT_6581147 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:5454702
5' mRNA sequence.

ACCESSION BM809804.1 GI:19126627
VERSION EST.
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1324)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Tissue Procurement: Rubin Laboratory
CDNA Library Preparation: Rubin Laboratory
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
plate: LNCM1950 row: e column: 07
High quality sequence stop: 357.

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/lab_host="DH10B (phage-resistant)"
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<http://image.llnl.gov>
plate: LNCM1950 row: e column: 07
High quality sequence stop: 357.
FEATURES source
1. 1.1324
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5454702"
/clone_id="NIH_MGC_98"
/tissue_type="astrocytoma grade IV, cell line"
/lab_host="DH10B (phage-resistant)"
/note="Organ: brain; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GCGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."
/note="Organ: brain; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GCGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."
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/note="Organ: brain; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GCGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."
/note="Organ: brain; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GCGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."
/note="Organ: brain; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GCGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."
/note="Organ: brain; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GCGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."
/note="Organ: brain; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GCGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."
/note="Organ: brain; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GCGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."
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/note="Organ: brain; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GCGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."
/note="Organ: brain; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GCGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."
/note="Organ: brain; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GCGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."
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BQ878692
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5', mRNA sequence.
ACCESSION BQ878692
VERSION BQ878692.1 GI:22270700
KEYWORDS EST.
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 854)
REFERENCE NIH-MGC http://mgc.ncbi.nlm.nih.gov/
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaps-r@mail.nih.gov
Tissue Procurement: Rubin Laboratory
CDNA Library Preparation: Rubin Laboratory Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LICM2324 row: 1 column: 11
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1. .854
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BASE COUNT 181 a 247 c 253 g 151 t 22 others
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Matches 595; Conservative 0; Mismatches 16; Indels 167; Gaps 1;
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Db 207 CAGCCCGCTTCCTCGCCCCGAGCCATGAATCTCAGTAGGCCAGTAGCAGGAGAAAG 266
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Db 267 GCAGTGACCNCCCGTCTGGGCTGCGAGCTCAGTCAGGAGGGGACTGGACCTC 326
QY 121 AGACCCAGCTGGAGGGAGAGCAGAGTCGAGGCTGCTCATACGATTGGGG 180
Db 327 AGACCCAGCTGGAGGGAGAGCAGCTGCAGGGTGTGCTCATACGATTGGGG 386
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RESULT 7
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5', mRNA sequence.
ACCESSION BQ684634
VERSION BQ684634.1 GI:21797313
KEYWORDS EST.
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 915)
REFERENCE NIH-MGC http://mgc.ncbi.nlm.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgaps-r@mail.nih.gov
Tissue Procurement: Rubin Laboratory
CDNA Library Preparation: Rubin Laboratory Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LICM2333 row: f column: 05
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Location/Qualifiers
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/note="Organ: skin; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; CDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH-MGC Library."
BASE COUNT 197 a 283 c 277 g 153 t 5 others

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Db	207 CAGCCCGCTTCTGCCCGGAGCCATGAATCTCAGTAGGCCAGTAGCACGGAGGAAG	266	Unpublished (1999)
QY	61 GCACTGACGACCGTGCTGGGGTGCAGTCAGGAGGGACTGGACCTTC	120	Contact: Robert Strausberg, Ph.D.
Db	267 GCACTGACGACCGTGCTGGGGTGCAGTCAGGAGGGACTGGACCTTC	326	Email: cgaps-r@mail.nih.gov
QY	121 AGACCCCAGCTGGAGGGAAAGCAGAGCTCAGGAGGGACTGGACCTTC	180	Tissue Procurement: DCTD/dTP
Db	327 AGACCCCAGCTGGAGGGAAAGCAGAGCTCAGGAGGGACTGGACCTTC	386	CDNA Library Preparation: Rubin Laboratory
QY	181 GAGAAAGCCAAGAGGAGATGCATCGCGTGGAGATCTGCCCGCAGAACCGAGGAC	240	CDNA Library Arrayed by: The I.M.A.G.E. Consortium
Db	387 GAGAAAGCCAAGAGGAGATGCATCGCGTGGAGATCTGCCCGCAGAACCGAGGAC	446	DNA Sequencing by: Agencourt Bioscience Corporation
QY	241 AAGAAGATGCAGCCGGTCACCATGCCACTCCAGGCCACTGCCCTCAGGACCC	300	Clone distribution: MGC clone distribution information can be found through the T.M.A.G.E. Consortium/LLNL at:
Db	447 AAGAAGATGCAGCCGGTCACCATGCCACTGCCCTCAGGCCATGGTCTCC	506	http://image.llnl.gov
QY	301 ATGGTAGGAGTGCAGTTCTCCCCCAGTTACTTCCAGCTCCGGCTCAGGACCC	360	Plate: LLCM2324 row: j column: 05
Db	507 ATGGTAGGAGTGCAGTTCTCCCCCAGTTACTTCCAGCTCCGGCTCAGGACCC	566	High quality sequence stop: 548.
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Db	640 AGAGACAAGCCCTGTGAAAAGGCCAACGCCAACAGCCAGGCCAAGAACCGAGGATC	698	
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Db	207 CAGCCCGCTTCTGCCCGGAGCCATGAATCTCAGTAGGCCAGTAGCACGGAGGAAG	266	Best Local Similarity 76.1%; Pred. No. 1.8e-58; Matches 602; Conservative 0; Mismatches 20; Indels 169; Gaps 2;
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Db	700	AAGAAATGAGGAGGCCAGGCCAACAGCCACAGCCAGGATT	699	547	TGGAGGAGCAAAGCCCTGTCAAAAGGTGGTCCCCAGAACGCCAGGCG 346
QY	661	AAGAAATGAGGAGGCCAGGCCACAGCCAGGAAATAAGAGCCACAGGTT	720	607	-----
Db	760	CTGCAGGCCACGGTGTGCCCCCTGCCACCTGTGTAATGCAACAGGG	759	607	TGGCTAAGAAAAAAGCTGGAAAAGAGGAAGAGGAATAAGAGCCACAGGATTC 286
QY	721	CTGCAGGCCACGGTGTGCCCCCTGTGCAAGTGGCCTGGGTGTG	778	667	-----
Db	820	GGTGTTGGCG 830	819	667	AGAGCCCCTGTGAAAAAGGCCAAAGCCACAGCCAGGAAATAAGAGCCACAGG 226
QY	779	TGTGCGGGGG 789	727	727	-----
Db	225	GAGGAGCCACGCCCTGGGGCACGGGTGCAAGTGGCCCTCCCTGGGCTGTGCTGAGG 166	166	727	GAGGAGCCACGCCCTGGGGCACGGGTGCAAGTGGCCCTCCCTGGGCTGTGCTGAGG 166
QY	820	GGTGTTGGCG 830	819	727	-----
Db	165	CACAGGGTGCCCTGTCCAGCCCCCTCACCTGTGATGCAACAGGGTGTGGGG 787	106	727	-----
QY	788	GGCAACACATGAGAGCCCCCTCACCCCAACTCTCCACTTCAGGAGCCCCAGTGAAGAGC 847	847	787	-----
Db	105	GGCAACACATGAGAGCCCCCTCACCCCAACTCTCCACTTCAGGAGCCCCAGTGAAGAGC 46	46	787	-----
QY	848	CCACACCTGGGGTACAATAAAGTTGCCCTGGTCAGGAAAAAAA 892	892	787	-----
Db	45	CCCACCTGGGGTACAATAAAGTTGCCCTGGTCAGGAAAAAAA 1	1	787	-----
RESULT 9					
LOCUS	BF594409/c	BF594409	405 bp	mRNA	linear EST 12-DEC-2000
DEFINITION		1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3324560 3'			
AUTHORS		similar to contains Alu repetitive element;contains element MER28			
TITLE		repetitive element ;, mRNA sequence.			
ACCESSION	BF594409				
VERSION	BF594409.1	GI:11686733			
KEYWORDS		EST.			
SOURCE		human.			
ORGANISM		Homo sapiens			
COMMENT		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
JOURNAL		1 (bases 1 to 405) NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.			
UNPUBLISHED		National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index			
COMMENT		Unpublished (1997)			
TISSUE		Contact: Robert Strausberg, Ph.D.			
PROCUREMENT		Email: cgaps-r@mail.nih.gov			
FEATURES	source	Tissue Procurement: Ilan Kirsch, M.D., Michael R. Emmert-Buck, M.D.			
FEATURES	source	, Ph.D.			
FEATURES	source	CDNA Library Preparation: M. Bento Soares, Ph.D.			
FEATURES	source	CDNA Library Arrayed by: Greg Lennon, Ph.D.			
FEATURES	source	DNA Sequencing by: Washington University Genome Sequencing Center			
FEATURES	source	Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL, send email to: info@image.llnl.gov			
FEATURES	source	Seq primer: -40UP from Gibco			
FEATURES	source	High quality sequence stop: 404.			
FEATURES	source	Location/Qualifiers			
1.	.405				
/organism="Homo sapiens"					
/db_xref="taxon:9606"					
/clone="IMAGE:3324560"					
/clone_1lib="NCI_CGAP_Co16"					
/tissue_type="colon tumor, RER+"					
/lab_host="DH10B"					
/note="Organ: colon; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; Plasmid DNA from the normalized library NCI_CGAP_Co16 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1057416-1061255, and 1144584-1145351). Subtraction by Bento Soares and M. Fatima Bonaldo. "					
FEATURES	source	High quality sequence stop: 381.			
FEATURES	source	Location/Qualifiers			
1.	.399				
/organism="Homo sapiens"					
/db_xref="taxon:9606"					
/clone="IMAGE:2823298"					
/tissue_type="small cell carcinoma"					
/cell_line="MGC3"					
/lab_host="DH10B (phage-resistant)"					
/note="Organ: lung; vector: pOTB7; site_1: xhol; site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5'					
BASE COUNT	54 a	120 c	107 g	124 t	
ORIGIN					

FEATURES	source	Location/Qualifiers
1. . 966		/organism="Homo sapiens" /db_xref="taxon:9606" /clone="IMAGE:6259047" /clone_lib="NIH_MGC_112" /tissue_type="melanotic melanoma, cell line" /lab_host="DH10B (phage-resistant)" /note="Organ: skin; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library." NIH_MGC Library." ORIGIN
205 a	300 c	295 g
295 g	159 t	7 others
Query Match		41.0%; Score 378.4; DB 14; Length 966;
Best Local Similarity		74.0%; Pred. No. 6.5e-54;
Matches	668;	Conservative 0; Mismatches 56; Indels 179; Gaps 8;
QY	1	CAGGCCCGCTCTGGCCGAGCCATGAATCTCAGTAGGCCAGTAGCGGAGAAAG 60
QY	207	CAGGCCCGCTCTGGCCGAGCCATGAATCTCAGTAGGCCAGTAGCGGAGAAAG 266
QY	61	GGACTGACGCCGTGCTCTGGGCTGCAGTCAGTCAGGAGGGACTTGGACCTTC 120
QY	267	GCACTGACGCCGTGCTCTGGGCTGCAGTCAGGAGGGGACTTGGACCTTC 326
QY	121	AGACCCCAGCTGGAGGGGAAGCAGAGCTGCAGGCTGTTGCTTCATCGATTGGG 180
QY	327	AGACCCCAGCTGGAGGGGAAGCAGAGCTGCAGGCTGTTGCTTCATCGATTGGG 386
QY	181	GAGAAAGCCAAAGAGGAGATGC-ATCGCGTGGAGATCCTGGCCACCAACAGGGA 239
QY	387	GAGAAAGCCAAAGAGGAGATGCNATCGCGTGGAGATCCTGGCCACCAACAGGGA 446
QY	240	CAAGAAGATGCAGCCGGTACCATGGCTCAGTCCCTCCCATGGTCTC 299
QY	447	CAAGAAGATGCAGCCGGTACCATGGCTCAGTCCCTCCCATGGTCTC 506
QY	300	CATGG--TAGGAGTGCAGGTTCTCCAGCTCCGGGTGGCTCAGG- 356
QY	507	CATGGGTAGGGAGTGCAGCTTCCAGCTCCGGGTGGCTCAGG 566
FEATURES	source	RESULT 13
1.	. 361	AW002370/c
		LOCUS AW002370
		DEFINITION wu61a07.x1 NCI_CGAP_GC6 Homo sapiens mRNA linear EST 09-MAR-2000
		mRNA sequence.
		ACCESSION AW002370
		VERSION AW002370.1 GI:5849286
		KEYWORDS EST.
		SOURCE
		ORGANISM human.
		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
		REFERENCE 1 (bases 1 to 361)
		AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
		TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
		COMMENT Unpublished (1997) Contact: Robert Strausberg, Ph.D. Email: cgaps-r@mail.nih.gov Tissue procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D. cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.
		CDNA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html Insert Length: 431 Std Error: 0.00 Seq primer: -40UP from Gibco.
FEATURES	source	Location/Qualifiers
1. . 361		1. . 361
		/organism="Homo sapiens" /db_xref="taxon:9606" /clone="IMAGE:2524500" /clone_lib="NCI_CGAP_GC6" /tissue_type="pooled germ cell tumors" /lab_host="DH10B"
		/note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; Plasmid DNA from the normalized library NCI_CGAP_GC4 was prepared, and ss circles were made in vitro. Following RAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (clones 1257096-1258631, 1469064-1470983, and 1475592-147643). Subtraction by Bento Soares and M. Fatima Bonaldo."
536	536	GGCTTAGAGACAGAGCCCTGTGAAAGGCCAACGCCACAGCCAGGCCAG 655
536	599	GGCTTAGAGACAGAGCCCTGTGAAAGGCCAACGCCACAGCCAGGCCAG 639
596	596	GGCTTAGAGACAGAGCCCTGTGAAAGGCCAACGCCACAGCCAGGCCAG 699
640	640	GGCTTAGAGACAGAGCCCTGTGAAAGGCCAACGCCACAGCCAGGCCAG 699
656	656	GATTCAAATGAGGCCAC-GCCTGGGGCACGGTGCAAAGTGGCCTT-CCCT 712
700	700	GATTCAGAATGAGGCCCTGGGGCACGGTGCAAAGTGGCCTTCCCT 759
713	713	GGCTGTCTGCAGGCCACAGGGTGCCTGGGGCACGGCCTTCCACCTGTGCTGAATGCAA 772
QY	533	AGAAGCAGGCCAGCTGGCTAAGAAAAAGCTGAAAGAAGGAATAAGAG 592
Db	361	AGAAGCAGGCCAGCTGGCTAAGAAAAAGCTGAAAGAAGGAATAAGAG 302
BASE COUNT	50 a	107 c 93 g 111 t
ORIGIN		
Query Match		38.7%; Score 357.8; DB 10; Length 361;
Best Local Similarity		99.4%; Pred. No. 2.5e-50;
Matches	359;	Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	533	AGAAGCAGGCCAGCTGGCTAAGAAAAAGCTGAAAGAAGGAATAAGAG 592
Db	361	AGAAGCAGGCCAGCTGGCTAAGAAAAAGCTGAAAGAAGGAATAAGAG 302

QY 593 CCAGCGTTAGAGACAAGAGCCCTGTGAAAAGGCCAAGGCCACAGCCAGAGCAAGAACAGGCTTTCCT 652
Db 301 CCAGCGTTAGAGACAAGAGCCCTGTGAAAAGGCCAAGGCCACAGCCAGAGCAAGAACAGGCTTTCCT 242
QY 653 CAGGATTCAAGAAATGAGGAGGCCACGCCCTGGGGCACGGCTTGGGGCACGGCTTGCAAAAGTGGCCTTCCT 712
Db 241 CAGGATTCAAGAAATGAGGAGGCCACGGCTTGGGGCACGGCTTGCAAAAGTGGCCTTCCT 182
QY 713 GGGCTGTGCTGCAGGCCACAGGTGCCCTGTCAGGCCCTCACCTGTCTGAATGCAA 772
Db 181 GGGCTGTGCTGCAGGCCACAGGTGCCCTGTCAGGCCCTCACCTGTCTGAATGCAA 122
QY 773 CAGGGGTGTGCGGGGCCACATGAGAGGCCACGCCCTCACCCCCAACCTTCCACTTCAGGAGG 832
Db 121 CAGGGGTGTGCGGGGCCACATGAGAGGCCACGCCCTCACCCCCAACCTTCCACTTCAGGAGG 62
QY 833 CCCCGTGTGAGAGGCCACCTCGGGTCACTAAAGTTGGTCAGGAAAAAAA 892
Db 61 CCCCGTGTGAGAGGCCACCTCGGGTCACTAAAGTTGGTCAGGAAAAAAA 2
QY 893 A 893
Db 1 A 1

RESULT 14
BF592761/c
LOCUS BF592761 361 bp mRNA linear EST 12-DEC-2000
DEFINITION 7j94b04.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3442494 3',
mRNA sequence.
ACCESSION BF592761
VERSION BF592761.1 GI:11685085
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 361)
AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaps-r@mail.nih.gov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
R. Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
Bonaldo, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL, send email to:
info@image.llnl.gov
Seq primer: -40UP from Gibco.
FEATURES source
1. .361
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3442494"
/clone_lib="NCI_CGAP_GC6"
/tissue_type="pooled germ cell tumors"
/lab_host="DH10B"
/note="Vector: pT7T3D-Pac (Pharmacia) with a modified
polylinker; Site_1: Not I; Site_2: Eco RI; Plasmid DNA
from the normalized library NCI_CGAP_GC4 was prepared, and
ss circles were made in vitro. Following HAP purification,
this DNA was used as tracer in a subtractive hybridization
reaction. The driver was PCR-amplified cDNAs
of 5,000 clones made from the same library (cloneIDs
1257096-1258631, 1469064-1470983, and 1475592-1476743).
Subtraction by Bento Soares and M. Fatima Bonaldo."
BASE COUNT 50 a 106 c 94 g 111 t
ORIGIN . . .

Query Match 38.7%; Score 357.8; DB 12; Length 361;
Best Local Similarity 99.4%; Pred. No. 2.5e-50;
Matches 359; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Matches 359; Conservative 0; Indels 0; Gaps 0;

QY 533 AGAAGCAGGCCAGGGTGGCTAAGAAAAAGCTGGAAAAGAGAAGGAATAAGAG 592
Db 361 AGAAGCAGGCCAGGGTGGCTAAGAAAAAGCTGGAAAAGAGAAGGAATAAGAG 302
QY 593 CCAGCGTTAGAGACAAGAGCCACAGCCACAGCCAGAGCAAGAACAGGCTTTCCT 652
Db 301 CCAGCGTTAGAGACAAGAGCCACAGGCCACAGCCACAGCCAGAGCAAGAACAGGCTTTCCT 242
QY 653 CAGGATTCAAGAAATGAGGAGGCCACGCCCTGGGGCACGGCTTGGGGCACGGCTTGCAAAAGTGGCCTTCCT 712
Db 241 CAGGATTCAAGAAATGAGGAGGCCACGGCTTGGGGCACGGCTTGCAAAAGTGGCCTTCCT 182
QY 713 GGGCTGTGCTGCAGGCCACAGGTGCCCTGTCAGGCCCTCACCTGTCTGAATGCAA 772
Db 181 GGGCTGTGCTGCAGGCCACAGGTGCCCTGTCAGGCCCTCACCTGTCTGAATGCAA 122
QY 773 CAGGGGTGTGAGAGGCCACGCCCTCACCCCCAACCTTCCACTTCAGGAGG 832
Db 121 CAGGGGTGTGAGAGGCCACGCCCTCACCCCCAACCTTCCACTTCAGGAGG 62
QY 833 CCCCGTGTGAGAGGCCACAGGGTGCCTGGGGCACGGTGCACAGGGTGCACAGGCCACAGGCCAGAGCAAGAACAGGCTTTCCT 712
Db 61 CCCCGTGTGAGAGGCCACGCCCTCACCCCCAACCTTCCACTTCAGGAGG 2
QY 893 A 893
Db 1 A 1

RESULT 15
BF057162/c
LOCUS BF057162 361 bp mRNA linear EST 16-OCT-2000
DEFINITION 7k16g07.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:344661 3',
mRNA sequence.
ACCESSION BF057162
VERSION BF057162.1 GI:10811058
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 361)
AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaps-r@mail.nih.gov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
R. Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
Bonaldo, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL, send email to:
info@image.llnl.gov
Seq primer: -40UP from Gibco.
FEATURES source
1. .361
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3444661"
/clone_lib="NCI_CGAP_GC6"
/tissue_type="pooled germ cell tumors"
/lab_host="DH10B"
/note="Vector: pT7T3D-Pac (Pharmacia) with a modified
polylinker; Site_1: Not I; Site_2: Eco RI; Plasmid DNA
from the normalized library NCI_CGAP_GC4 was prepared, and
ss circles were made in vitro. Following HAP purification,
this DNA was used as tracer in a subtractive hybridization
reaction. The driver was PCR-amplified cDNAs
of 5,000 clones made from the same library (cloneIDs
1257096-1258631, 1469064-1470983, and 1475592-1476743).
Subtraction by Bento Soares and M. Fatima Bonaldo."
BASE COUNT 50 a 106 c 94 g 111 t
ORIGIN . . .

from the normalized library NCI_CGAP_Gc4 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1257096-1258631, 1469064-1470983, and 1475592-1476743). Subtraction by Bento Soares and M. Fatima Bonaldo.

BASE COUNT ORIGIN	50 a	107 c	93 g	111 t
Query Match				
Best Local Similarity	38.7%	Score	357.8	DB 12;
Matches	359;	Pred.	No.	2.5e-50;
Conservative	0;	Mismatches	2;	Indels
			0;	Gaps
Qy	533	AGAACCGAGGGAGCGTGGCTAAGAAAAAAAGCTGGAAAAGAAGAGGAATAAGAG	592	
Db	361	AGAACGCAGGCCAGCGTGCTGCTAAGAAAAAAAGCTGGAAAAGAAGAGGAATAAGAG	302	
Qy	593	CCAGCGTTAGAGACAAGAGCCACGCCCTGTGAAANAGGCCAAAGCCACAGCCAGGCCAAGAACG	652	
Db	301	CCAGCGTTAGAGACAAGAGCCACGCCCTGTGAAANAGGCCAAAGCCACAGCCAGGCCAAGAACG	242	
Qy	653	CAGGATTCAAGAAATGAGGAGGCCACGCCCTGGGGGCACGGTCAAAGTGGCCTTCCT	712	
Db	241	CAGGATTCAAGAAATGAGGAGGCCACGCCCTGGGGGCACGGTCAAAGTGGCCTTCCT	182	
Qy	713	GGGCTGTGCTGCCAGGCACAGGTGCCCTGTCCAGGCCCTCACCTGTGTCTGAATGCAA	772	
Db	181	GGGCTGTGCTGCCAGGCACAGGTGCCCTGTCCAGGCCCTCACCTGTGTCTGAATGCAA	122	
Qy	773	CAGGGGTGTGCGGGGGCAACATGAGAGGCCCTCACCCCCAACTCTCCACTTCAGGAGG	832	
Db	121	CAGGGGTGTGCGGGGGCAACATGAGAGGCCCTCACCCCCAACTTTCCACTTCAGGAGG	62	
Qy	833	CCCCCAGTGAAGAGCCCCACCTGGGGTCACAATAAGTTGCTGGTCAGGAAAAAAA	892	
Db	61	CCCCCAGTGAAGAGCCCCACCTGGGGTCACAATAAGTTGCTGGTCAGGAAAAAAA	2	
Qy	893	A 893		
Db	1	A 1		

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Job time : 2248 secs

